



*Pinto Creek, a tributary of the Salt River, near Globe, Arizona.*

## The Salt Watershed

This watershed is composed of the Salt River drainage from its headwaters to Granite Reef Dam, excluding the Verde River drainage. The watershed can be divided into four sub-basins: White River, Black River, Tonto Creek, and the Salt River. Perennial water in the White River and Black River provides much of the water used in the Phoenix metropolitan area.

The population of this 6,242 square mile watershed is approximately 40,500 people (2000 census), with most of this population in the Superior-Globe-Miami mining district. Land ownership is approximately: 2% private land, 1% state land, 48% federal land, and 49% Tribal land. The principal land uses are open range grazing, recreation, forestry, and mining, which is centralized in the Superior-Miami-Globe area. Nine wilderness areas have been set aside, with restricted land uses and activities.

Elevations range from 10,600 feet (above sea level) in the White Mountains to about 2,000 feet at Granite Reef Dam. The White River and Black River drainages, along with the headwaters of most of the other major tributaries in this watershed, are above 5,000 feet elevation (high desert flora and fauna). These areas support coldwater aquatic communities where perennial waters exist.

**The assessment** – Assessments were completed for 39 stream reaches and seven lakes in this watershed. Of the 384 stream miles assessed, 131 miles were attaining all uses (nine reaches) and 72 miles (eight reaches) were assessed as impaired or not attaining a use. Of the 22,645 lake acres assessed, none were assessed as attaining all uses and 600 acres (two lakes) were assessed as impaired. All others are inconclusive or attaining some uses.

A watershed assessment map follows on the next page, illustrating stream and lake assessments by category. The Salt River **monitoring table (Table 15)** following the map summarizes the water quality data used in the assessment. It is followed by the **assessment table (Table 16)**, which bridges current assessments with past assessments and impaired water identification. Important to note in this table are comments regarding previous 303(d) lists (what has been added and removed), category designations (1 through 5), references to potential actions by EPA, and status of TMDLs.

Detailed information on how to use these tables is found at the beginning of this chapter (p. IV-1). Assessment methods and criteria can be found in Chapter III.



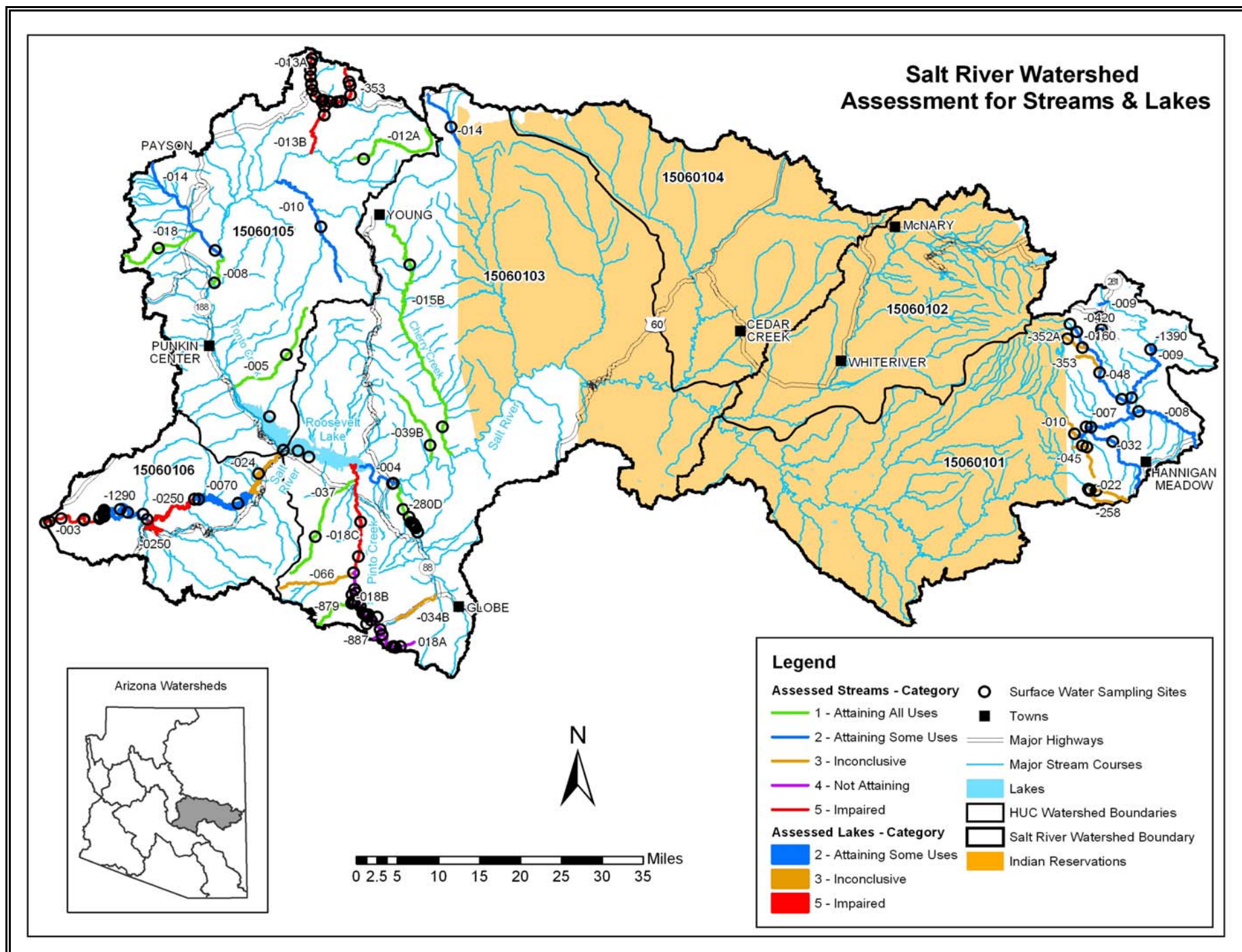


Figure 20. Watershed monitoring and assessments

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
STREAM MONITORING DATA								
Bear Wallow Creek North and South Forks - Black River AZ15060101-023 A&Wc, FC, FBC, AgL Unique Water	ADEQ Ambient Monitoring Below South Fork Bear Wallow Creek SRBWL003.48 101198	2001 - 1 full suite 2002 - 1 partial + 1 full suite	No exceedances					Lab reporting limit for dissolved copper too high to use results for assessment.
	Summary Row  A&Wc      Inconclusive FC        Attaining FBC       Inconclusive AgL       Attaining	2001 - 2002  3 sampling events	No exceedances					ADEQ collected 3 samples in 2001- 2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters: <i>Escherichia coli</i> and dissolved copper.
Bear Wallow Creek, North Fork headwaters - Bear Wallow Creek AZ15060101-022 A&Wc, FC, FBC, AgL Unique Water	ADEQ Biocriteria Program Above South Fork Bear Wallow Creek SRNBE000.54 100605	1998 - 1 partial suite	No exceedances					Lab reporting limits for dissolved copper samples were too high to use results for assessment.
	ADEQ Ambient Monitoring Above South Fork Bear Wallow Creek SRNBE000.06 101262	2001 - 1 full suite 2002 - 1 full suite	No exceedances					
	Summary Row  A&Wc      Inconclusive FC        Inconclusive FBC       Inconclusive AgL       Inconclusive	1998  3 sampling events	No exceedances					ADEQ collected 3 samples at 2 sites in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: <i>Escherichia coli</i> , dissolved metals (copper and zinc), and total metals (mercury, copper, and lead).
Bear Wallow Creek, South Fork headwaters - Bear Wallow Creek AZ15060101-258 A&Wc, FC, FBC, AgL Unique Water	ADEQ Ambient Monitoring Upstream of horse pack trail SRNBE000.10 101261	2001 - 1 full suite 2002 - 1 full suite	No exceedances					
	Summary Row A&Wc      Inconclusive FC        Inconclusive FBC       Inconclusive AgL       Inconclusive	1998  2 sampling events	No exceedances					Insufficient monitoring data to assess.

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
Beaver Creek headwaters - Black River AZ15060101-008 A&Wc, FC, FBC, Agl, AgL	ADEQ Ambient Monitoring Near Sprucedale SRBEV000.77 100373	2001 - 1 full + 1 partial suite 2002 - 2 full + 4 partial suites	Turbidity (former standard) NTU	10 (A&Wc)	6.4 - 17.2	2 of 8		Lab reporting limits for dissolved copper samples too high to use results for assessment.
	Summary Row  A&Wc Inconclusive FC Attaining FBC Attaining Agl Attaining AgL Attaining	2001 - 2002  8 sampling events	Turbidity (former standard) NTU	10 (A&Wc)	6.4 - 17.2	2 of 8	Inconclusive (see comment)	ADEQ collected 3 samples in 2001- 2002. Assessed as "attaining some uses" and placed on the Planning List due to exceedances of the former turbidity standard. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.  Also placed on Planning List due to missing core parameter: dissolved copper.
Black River Beaver Creek - Reservation Creek AZ15060101-007 A&Wc, FC, FBC, DWS, Agl, AgL	ADEQ Ambient Monitoring Upstream of Forest Service Road #25 SRBLR029.71 101202	2001 - 1 full suite 2002 - 1 full + 1 partial suite	No exceedances					Lab reporting limits for dissolved copper samples too high to use results for assessment.
	Summary Row A&Wc Inconclusive FC Attaining FBC Inconclusive DWS Attaining Agl Attaining AgL Attaining	2001 - 2002  3 sampling events	No exceedances					ADEQ collected 3 samples in 2001- 2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters: <i>Escherichia coli</i> and dissolved copper.
Black River, East Fork headwaters-Black River AZ15060101-009 A&Wc, FC, FBC, DWS, Agl, AgL	ADEQ Ambient Monitoring Below Three Forks Creek SREFB006.98 101203	2001 - 1 full suite 2002 - 3 full suites	No exceedances					Lab reporting limits for dissolved copper too high to use results for assessment.
	ADEQ Ambient Monitoring At Buffalo Crossing SREFB000.81 100375	2001 - 1 full suite 2002 - 3 full suites	No exceedances					
	Summary Row A&Wc Inconclusive FC Attaining FBC Attaining DWS Attaining Agl Attaining AgL Attaining	2001 - 2002  8 samples 4 sampling events	No exceedances					ADEQ collected 8 samples at 2 sites in 2001-2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameter: dissolved copper.
Black River, West Fork headwaters - Black River AZ15060101-048 A&Wc, FC, FBC, DWS, Agl, AgL	ADEQ Biocriteria Program Above Thompson Creek confluence SRWFB011.08 100692	1998 - 1 partial suite	No exceedances					Lab reporting limits for dissolved metals samples were too high to assess the chronic standards.
	ADEQ Ambient Monitoring Below Forest Road #116 SRWFB009.96 101204	2001 - 1 full suite 2002 - 3 full suites	No exceedances					

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ Ambient Monitoring At Buffalo Crossing SRWFB000.78 100376	2001 - 1 full +1 partial suite 2002 - 3 full + 7 partial suites	No exceedances					
	Summary Row A&Wc Inconclusive FC Attaining FBC Attaining DWS Attaining Agl Attaining AgL Attaining	1998 - 2002  17 samples 13 sampling events	No exceedances					ADEQ collected 8 samples at 2 sites in 2001-2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters: dissolved metals (cadmium, copper, and zinc).
Campaign Creek headwaters - Pinto Creek AZ15060103-037 A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring At Superstition Wilderness SRCGN007.70 100431	2001 - 1 full suite 2002 - 2 full + 1 partial suite	No exceedances					
	Summary Row A&Ww Attaining FC Attaining FBC Attaining AgL Attaining	2001 - 2002  4 sampling events	No exceedances					ADEQ collected 4 samples in 2001-2002. Assessed as "attaining all uses."
Canyon Creek headwaters - White Mountain Apache Reservation AZ15060103-014 A&Wc, FC, FBC, DWS, Agl, AgL	ADEQ Ambient Monitoring Near Young, Arizona SRCYN031.80 100370	2001 - 1 full suite 2002 - 2 full + 1 partial suite	No exceedances					
	Summary Row A&Wc Inconclusive FC Attaining FBC Attaining DWS Attaining Agl Attaining AgL Attaining	2001 - 2002  4 sampling events	No exceedances					ADEQ collected 4 samples in 2001-2002. Assessed as "attaining some uses" and placed on the Planning List due to a fish kill related to the Rodeo-Chediski Fire in 2002. Further monitoring is needed to determine long-term negative impacts from the fire.
Cherry Creek tributary at 34 05 09 / 110 56 04 - Salt River AZ15060103-015B A&Ww, FC, FBC, Agl, AgL	ADEQ Ambient Monitoring 50 meters upstream road SRCHE023.90 101323	2001 - 1 full suite 2002 - 2 full + 1 partial suite	No exceedances					
	ADEQ Ambient Monitoring Upstream Road #203 SRCHE003.51 100347	2001 - 1 full suite 2002 - 3 full suites	No exceedances					
	Summary Row A&Ww Attaining FC Attaining FBC Attaining Agl Attaining AgL Attaining	2001 - 2002  8 samples 7 sampling events	No exceedances					ADEQ collected 8 samples at 2 sites in 2001-2002. Assessed as "attaining all uses."
Christopher Creek headwaters - Tonto Creek AZ15060105-353 A&Wc, FC, FBC, Agl, AgL	ADEQ TMDL Program Upstream of recreation area SRCRS006.04 101027	2000 - 3 partial suites 2002 - 6 field + nutrients	No exceedances					

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ TMDL Program Downstream of recreation SRCRS005.70 101028	2000 - 3 partial suites 2002 - 6 field + nutrients	No exceedances					
	ADEQ TMDL Program Above Christopher & Hwy 260 SRCRS004.47 101029	2000 - 3 partial suites 2002 - 6 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.7 - 9.7 (88 - 116%)	1 of 9		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
	ADEQ TMDL Program By cross-section cut SRCRS003.56 101030	2000 - 3 partial suites 2002 - 4 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.5 - 10.4 (79 - 107%)	2 of 7		
			<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	7 - 260	1 of 3		
	ADEQ TMDL Program Above Christopher Cr. Camp and below Hunter Creek SRCRS002.85 101031	2000 - 3 partial suites 2002 - 2 field + nutrients	Turbidity (former standard) NTU	10 (A&Wc)	2 - 13	1 of 5		
	ADEQ TMDL Program Below Christopher Cr. Camp, above Boy Scout Ranch SRCRS002.26 101032	2000 - 3 partial suites 2002 - 2 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.8 - 9.4 (84 - 108%)	1 of 5		
			Turbidity (former standard) NTU	10 (A&Wc)	4 - 14	1 of 4		
	ADEQ TMDL Program Near top of Box Canyon, below Boy Scout Camp SRCRS001.49	2000 - 1 <i>Escherichia coli</i>	<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	238	1 of 1		
	ADEQ TMDL Program Near top of Box Canyon, below Boy Scout Camp SRCRS001.36	2000 - 1 <i>Escherichia coli</i>	No exceedances					
	ADEQ TMDL Program At top of Box Canyon, Below Boy Scout Ranch SRCRS001.24 101033	2000 - 3 partial suites 2002 - 3 field + nutrients	<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	1 - 689	2 of 3		One occurred during a storm flow.
			Turbidity (former standard) NTU	10 (A&Wc)	9 - 89	1 of 5		
	ADEQ TMDL Program Box Canyon pools SRCRS001.23 - 1.18	2000 - 1 <i>Escherichia coli</i>	<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	133 - 501	1 of 1		
	ADEQ Ambient Monitoring Downstream of Box Canyon SRCRS000.18 100367	1999 - 1 nutrient suite 2001 - 1 partial suite 2002 - 3 full suites	Turbidity (former standard) NTU	10 (A&Wc)	2 - 30	2 of 4		

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ TMDL Program Upstream of Tonto Creek, downstream of Box Canyon SRCRS000.08 101034	2000 - 3 partial suites 2002 - 3 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.3 - 10.8 (82 - 105%)	2 of 6		
			Turbidity (former standard) NTU	10 (A&Wc)	11 - 26	4 of 5		
	<b>Summary Row</b>  <b>A&amp;Wc</b> <b>Inconclusive</b> <b>FC</b> <b>Attaining</b> <b>FBC</b> <b>Not attaining</b> <b>AgI</b> <b>Attaining</b> <b>AgL</b> <b>Attaining</b>	<b>1999 - 2002</b>  <b>64 samples</b> <b>7 sample events</b>	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.8 - 11.2 (79-116%)	5 of 54	Attaining	ADEQ collected 64 samples at 12 sites in 1999-2002. Assessed as "not attaining" due to <i>Escherichia coli</i> exceedances. <i>E. coli</i> TMDL approved in 2004. Placed on the Planning list for TMDL follow-up monitoring.  Reach was on the 2002 303(d) List due to turbidity. The Aquatic and Wildlife use is assessed as "inconclusive" and placed on the Planning List due to exceedances of the former turbidity standard. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.
			<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	1 - 689	2 of 7 events (in 2000)	Not attaining	
			Turbidity (former standard) NTU	10 (A&Wc)	<1 - 89	9 of 54	Inconclusive (see comment)	
Coon Creek Unnamed tributary at 33 46 42 / 110 54 25 - Salt River AZ15060103-039B A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring At Forest Service Road 203 Near Roosevelt Lake SRCOO001.73 100379	2001 - 1 full suite 2002 - 3 full suites	No exceedances					
	<b>Summary Row</b> <b>A&amp;Ww</b> <b>Attaining</b> <b>FC</b> <b>Attaining</b> <b>FBC</b> <b>Attaining</b> <b>AgL</b> <b>Attaining</b>	<b>2001 - 2002</b>  <b>4 sampling events</b>	No exceedances					ADEQ collected 4 samples in 2001-2002. Assessed as "attaining all uses."
Cottonwood Canyon headwaters - Pinto Creek AZ15060103-891 A&We, PBC (tributary rule)	BHP Mining - NPDES MG2-8b Below Cottonwood Tailings	2002 - 2 field + metals	No exceedances					
	<b>Summary Row</b> <b>A&amp;We</b> <b>Inconclusive</b> <b>PBC</b> <b>Inconclusive</b>	<b>2002</b> <b>2 sampling events</b>	No exceedances					Insufficient monitoring data to assess.
Deer Creek headwaters - Rye Creek AZ15060105-018 A&Wc, FC, FBC (tributary rule)	ADEQ Biocriteria Program At Mazatzal Wilderness SRD4E003.91 100531	2002 - 3 full suites	No exceedances					
	<b>Summary Row</b> <b>A&amp;Wc</b> <b>Attaining</b> <b>FC</b> <b>Attaining</b> <b>FBC</b> <b>Attaining</b>	<b>2002</b> <b>3 sampling events</b>	No exceedances					ADEQ collected 3 samples in 2002. Assessed as "attaining all uses."
Fish Creek headwaters - Black River AZ15060101-032 A&Wc, FC, FBC, AgI, AgL	ADEQ Biocriteria Program Near Bear Wallow Creek Wilderness SRFIS002.53 100553	1998 - 1 partial suite	Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	33	1 of 1		Lab reporting limits for dissolved copper and zinc too high to use results for assessment.
				varies by hardness (A&Wc chronic)	33	1 of 1		

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ Ambient Monitoring Above Black River SRFIS000.01 101200	2001 - 1 full suite 2002 - 2 full suites	No exceedances					
	<b>Summary Row</b> A&Wc Inconclusive FC Attaining FBC Inconclusive Agl Attaining AgL Attaining	<b>1998 - 2002</b>  4 sampling events	Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	<10 - 33	1 of 1 event (in 1998)	Inconclusive	ADEQ collected 4 samples at 2 sites in 1998-2002. Assessed as "attaining some uses" and placed on the Planning List due to copper exceedance and missing core parameters: <i>Escherichia coli</i> , dissolved metals (copper and zinc).
				varies by hardness (A&Wc chronic)	<10 - 33	1 of 1 event	Inconclusive	
	Gibson Mine Tributary headwaters - Pinto Creek AZ15060103-887 A&Ww, FC, FBC (tributary rule)	ADEQ TMDL Program Above Pinto Creek SRGIM000.15 101071	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	2100 - 5900	5 of 5		
				varies by hardness (A&Ww chronic)	2100 - 5900	5 of 5		
			Copper (total) µg/L	1300 (FBC)	2100 - 5900	5 of 5		
			pH (low) SU	6.5 - 9.0 (A&Ww, FBC)	5.5 - 6.5	1 of 4		
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	96.0	1 of 1		
				varies by hardness (A&Ww chronic)	96.0	1 of 1		
	<b>Summary Row</b>  A&Ww Not attaining FC Inconclusive FBC Inconclusive	<b>2000 - 2001</b>  5 sampling events	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	2100 - 5900	5 of 5 samples 5 of 5 events (in 2000-2001)	Not attaining	ADEQ collected 5 samples at 2 sites in 2000-2001. Copper loadings for this tributary were addressed in the Pinto Creek TMDL approved by EPA in 2001.  Assessed as "not attaining" due to copper exceedances. Placed on the Planning List for TMDL follow-up monitoring, pH and zinc exceedances, and missing core parameters: <i>Escherichia coli</i> , turbidity/SSC, dissolved metals (cadmium and zinc), and total mercury.  Monitoring for a Phase II copper TMDL is ongoing.
				varies by hardness (A&Ww chronic)	2100 - 5900	5 of 5 samples 5 of 5 events	Not attaining	
			Copper (total) µg/L	1300 (FBC)	2100 - 5900	5 of 5	Not attaining	
			pH (low) SU	6.5 - 9.0 (A&Ww, FBC)	6.49	1 of 4	Inconclusive	
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	96.0	1 of 1 event	Inconclusive	
				varies by hardness (A&Ww chronic)	96.0	1 of 1 event	Inconclusive	
Gold Gulch Canyon headwaters - Pinto Creek AZ15060103-894 A&We, PBC (tributary rule)	BHP Mining — NPDES Below Gold Gulch Weir MG1-12b	2002 - 1 field + metals	No exceedances					
	<b>Summary Row</b>  A&We Inconclusive PBC Inconclusive	<b>2002</b> 1 sampling event	No exceedances					Insufficient monitoring data to assess.



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Greenback Creek headwaters - Tonto Creek AZ15060105-005 A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring Below Conway Ranch SRGRE005.74 101221	2001 - 1 full suite 2002 - 2 full suites	No exceedances					
	Summary Row A&Ww Attaining FC Attaining FBC Attaining AgL Attaining	2001 - 2002  3 sampling events	No exceedances					ADEQ collected 3 samples in 2001-2002. Assessed as "attaining all uses."
Haigler Creek headwaters - unnamed reach at 34 12 23.1 / 111 00 11 AZ15060105-012A A&Wc, FC, FBC, AgL, AgL	ADEQ Ambient Monitoring Near Boy Scout Camp SRHAG004.41 100372	2001 - 1 full suite 2002 - 2 full + 1 partial suite	No exceedances					
	Summary Row A&Wc Attaining FC Attaining FBC Attaining AgL Attaining AgL Attaining	2001 - 2002  4 sampling events	No exceedances					ADEQ collected 4 samples in 2001-2002. Assessed as "attaining all uses."
Haunted Canyon headwaters - Pinto Creek AZ15060103-879 A&Ww, FC, FBC (tributary rule)	ADEQ Ambient Monitoring Below Powers Gulch SRHNC002.41 101131	2000 - 1 partial suite 2001 - 1 full suite 2002 - 3 full suites	Dissolved oxygen mg/L	6.0 (90% saturation) (A&Ww)	5.5 - 8.6 (68.9 - 106.3%)	1 of 5		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
	ADEQ TMDL Program At Carlota Weir HC-4 SRPNT002.29 101072	2000 - 2 partial suites 2001 - 2 field + copper	No exceedances					
	Summary Row A&Ww Attaining FC Attaining FBC Attaining	2000 - 2002  9 samples 8 sampling events	No exceedances					ADEQ collected 9 samples at 2 sites in 2000-2002. Assessed as "attaining all uses."
Hay Creek headwaters - West Fork Black River AZ15060101-353 A&Wc, FC, FBC, AgL Unique Water	ADEQ Ambient Monitoring Above West Fork Black River SRHAY000.02 101299	2001 - 1 full suite 2002 - 1 full suite	No exceedances					Lab reporting limits for dissolved cadmium, copper, and zinc samples were too high to use results for assessment.
	Summary Row A&Wc Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive	2001 - 2002  2 sampling events	No exceedances					Insufficient monitoring data to assess.
Miller Springs Canyon headwaters - Pinto Creek AZ15060103-892 A&Ww, FC, FBC (tributary rule)	BHP Mining MPO-1b Below Gold Gulch Weir	2000 - 1 field + metals 2001 - 4 field + metals 2002 - 3 field + metals	Selenium µg/L	2.0 (A&Ww chronic)	<5 - 3.7	4 of 4		Lab reporting limits for 4 additional selenium samples were too high to use results for assessment.
			Turbidity (former standard) NTU	50 (A&Ww)	4 - 95	1 of 8		

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row A&Ww Inconclusive FC Inconclusive FBC Inconclusive	2000 - 2002  8 sampling events	Selenium µg/L	2.0 (A&Ww chronic)	<5 - 3.7	4 of 4	Inconclusive* (see comment)	BHP collected 8 samples in 2000 - 2002. Assessed as "inconclusive" and placed on the Planning List due to selenium exceedances and missing core parameters: total mercury, dissolved oxygen, and <i>Escherichia coli</i> .  * BHP investigation indicates that selenium exceedances may be a laboratory method providing false positive results. See comment in Pinto Creek.  Also placed on the Planning List due to exceedance of the former turbidity standard. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.
			Turbidity (former standard) NTU	50 (A&Ww)	4 - 95	1 of 8	Inconclusive	
Pinal Creek Jesse Lane - Salt River AZ15060103-280D A&Ww, FBC, FC, AgL  <i>(After groundwater treatment plant installed in May 2001)</i>	USGS Special Investigation At Setka Ranch SRPNL005.78 101491	After May 2001 - 3 partial suites 2002 - 4 partial suites	No exceedances					Low dissolved oxygen due to naturally occurring ground water upwelling and low flow conditions, and not anthropogenic causes. Not considered in final assessment.
	Phelps Dodge & Hydro-GeoChem WQARF Monitoring At Pringle SRPNL005.78	After May 2001 - 8 partial suites 2002 - 11 partial suites	pH (low) SU	6.5 - 9.0 (A&Ww, FBC, AgL)	6.2 - 7.7	1 of 19		
	USGS Special Investigation At Site Z4.7 SRPNL005.461 101507	After May 2001 - 1 partial suite	Dissolved oxygen mg/L	6.0 (A&Ww)	3.8	1 of 1		
	USGS Special Investigation At Site Z5 SRPNL005.37 101509	After May 2001 - 2 partial suites 2002 - 1 partial suites	Dissolved oxygen mg/L	6.0 (90% saturation) (A&Ww)	4.2 - 8.0 (20 - 97%)	1 of 3		
	USGS Special Investigation At Site Z5.7 SRPNL005.23 101510	After May 2001 - 3 partial suites 2002 - 4 partial suites	No exceedances					
	USGS Special Investigation At Site Z6.2 SRPNL005.17 101511	After May 2001 - 2 partial suites	No exceedances					
	USGS Special Investigation At Site Z7 SRPNL005.05 101513	After May 2001 - 2 partial suites 2002 - 3 partial suites	Dissolved oxygen mg/L	6.0 (A&Ww)	5.5 - 6.0	2 of 5		
	USGS Special Investigation At Site Z8.3 SW SRPNL004.96 101515	2002 - 2 partial suites	No exceedances					

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STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	USGS Special Investigation At Site Z9A SRPNL004.77 101516	After May 2001 - 3 partial suites 2002 - 4 partial suites	Dissolved oxygen mg/L	6.0 (A&Ww)	5.4 - 7.5	2 of 4		
	USGS Special Investigation At Site JJ15 SRPNL004.36 101518	After May 2001 - 1 partial suite	No exceedances					
	USGS Fixed Station At Inspiration Dam #09498400 SRPNL003.30 101727	After May 2001 - 4 full suites 2002 - 5 full suites	No exceedances					
	<b>Summary Row</b>  A summary of exceedances before and after treatments is shown by parameter in the comment column to the right. Only samples taken after the installation of the ground water remediation facility in 2001 are considered for the assessment in the final summary row below.		Beryllium (dissolved) µg/L	5.3 (A&Ww chronic)	Before treatment: <0.5 - 10 After 1999 treatment: <0.5 - 10 After 2001 treatment: 0.6 - <4.8			Before treatment: 5 of 13 After 1999 treatment: 0 of 14 After 2001 treatment: 0 of 7
			Cadmium (dissolved) µg/L	varies by hardness (A&Ww acute)	Before treatment: <0.5 - 54 After 1999 treatment: <0.5 - 10 After 2001 treatment: <0.5 - 4			Before treatment: 8 of 24 After 1999 treatment: 0 of 19 After 2001 treatment: 0 of 13
				varies by hardness (A&Ww chronic)				Before treatment: 14 of 24 After 1999 treatment: 0 of 19 After 2001 treatment: 0 of 13
			Cadmium (total) µg/L	50 (AgL)	Before treatment: <0.5 - 55 After 1999 treatment: <0.5 - 10 After 2001 treatment: <0.5 - <0.1			Before treatment: 1 of 48 After 1999 treatment: 0 of 50 After 2001 treatment: 0 of 12
			Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	Before treatment: <1 - 283 After 1999 treatment: <1 - 70 After 2001 treatment: <1 - <30			Before treatment: 13 of 24 After 1999 treatment: 1 of 20 After 2001 treatment: 0 of 13
				varies by hardness (A&Ww chronic)				Before treatment: 18 of 24 After 1999 treatment: 1 of 20 After 2001 treatment: 0 of 13
			Mercury (dissolved) µg/L	0.01 (A&Ww chronic)	Before treatment: <0.1- 0.1 After 1999 treatment: <0.1 After 2001 treatment: <0.1			Before treatment: 1 of 1 (Sample result exceeding standard was at detection limit. Reporting limit too high on 9 other samples.) After 1999 treatment: (Reporting limits too high on 7 samples.) After 2001 treatment: (Reporting limits too high on 6 samples.)
			Nickel (dissolved) µg/L	varies by hardness (A&Ww chronic)	Before treatment: <10 - 1190 After 1999 treatment: <10 - 350 After 2001 treatment: <50 - <90			Before treatment: 21 of 24 After 1999 treatment: 2 of 19 After 2001 treatment: 0 of 13
			pH (low) SU	6.5 - 9.0 (A&Ww, FBC, AgL)	Before treatment: 5.4 - 8.2 After 1999 treatment: 6.1 - 7.7 After 2001 treatment: 6.2 - 7.7			Before treatment: 52 of 108 After 1999 treatment: 6 of 98 After 2001 treatment: 1 of 59
			Selenium (total) µg/L	2.0 (A&Ww chronic)	Before treatment: <1 - 8.7 After 1999 treatment: <1 - 1 After 2001 treatment: <1 - 8.7			Before treatment: 1 of 6 After 1999 treatment: 0 of 7 After 2001 treatment: 0 of 6

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID		YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
				PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
				Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	Before treatment: 3 - 1800 After 1999 treatment: 3 - 160 After 2001 treatment: 6 - 30		Before treatment: 18 of 24 After 1999 treatment: 0 of 19 After 2001 treatment: 0 of 13	
				varies by hardness (A&Ww chronic)	Before treatment: 18 of 24 After 1999 treatment: 0 of 19 After 2001 treatment: 0 of 13				
	Final Summary Row (Pinal Creek), considering only data collected after 2001 treatment initiated								
		A&Ww FC FBC AgL	Attaining Attaining Attaining Attaining	May 2001 - 2002 After treatment facility installed 59 total samples 13 sample events	pH (low) SU	6.5 - 9.0 (A&Ww, FBC, AgL)	6.2 - 7.7	1 of 59	Attaining
Pinto Creek headwater - tributary at 33 19 27 / 110 54 56 AZ15060103-018A A&Wc, FC, FBC, Agl, AgL	ADEQ TMDL Program At Simpson Dam SRPNT023.13		2001 - 2 field + copper	No exceedances					
	Summary Row A&Wc FC FBC Agl AgL	Not attaining Inconclusive Inconclusive Inconclusive Inconclusive	2001  2 sample events	No exceedances					Copper TMDL completed by EPA in 2001. Reach will remain assessed as "not attaining" until sufficient copper monitoring to show that all uses are meeting copper standards. Insufficient monitoring data to assess.
Pinto Creek tributary at 33 19 27 / 110 54 56 - Ripper Spring AZ15060103-018B A&Ww, FC, FBC, Agl, AgL	ADEQ TMDL Program Above Henderson Ranch Mines SRPNT023.02 101039		2000 - 1 full suite 2001 - 3 field + copper	pH (low) SU	6.5 - 9.0 (A&Ww, FBC, AgL)	6.1 - 7.8	1 of 3		
	ADEQ TMDL Program At Henderson Ranch Mines SRPNT023.00		2001 - 3 field + copper	Copper (dissolved) µg/L	varies by hardness (A&Ww chronic)	15.0 - 22.0	1 of 3		
	ADEQ TMDL Program At TS-2, below Henderson Ranch Mines SRPNT022.92		2001 - 1 field + copper	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	2000	1 of 1		
					varies by hardness (A&Ww chronic)	2000	1 of 1		
				Copper (total) µg/L	500 (Agl)	1900	1 of 1		
					1300 (FBC)	1900	1 of 1		
				pH (low) SU	6.5 - 9.0 (A&Ww, FBC, AgL)	3.1	1 of 1		
					4.5 - 9.0 (Agl)	3.1	1 of 1		

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					COMMENTS
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	
	ADEQ TMDL Program Below Henderson Ranch Mines SRPNT022.89 101061	2000 - 1 full suite 2001 - 3 field + copper	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	14.0 - 44.0	1 of 4		
				varies by hardness (A&Ww chronic)	14.0 - 44.0	3 of 4		
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	390	1 of 1		
				varies by hardness (A&Ww chronic)	390	1 of 1		
	ADEQ TMDL Program Above Gibson Mine Tributary SRPNT021.31 101062	2000 - 1 full suite 2001 - 3 field +copper	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	15 - 40	3 of 5		
				varies by hardness (A&Ww chronic)	15 - 40	5 of 5		
			pH (low) SU	6.5 - 9.0 (A&Ww, FBC, AgL)	5.9 - 8.4	1 of 4		
	ADEQ TMDL Program Below Gibson Mine Tributary SRPNT021.30 101063	2001 - 1 full suite	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	560	1 of 1		
				varies by hardness (A&Ww chronic)	560	1 of 1		
			Copper (total) µg/L	500 (AgL)	640	1 of 1		
	ADEQ TMDL Program At Old Highway 60 (PC-100) SRPNT020.65 101064	2000 - 1 full suite 2001 - 4 field + copper	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	32 - 920	5 of 5		
				varies by hardness (A&Ww chronic)	32 - 920	5 of 5		
			Copper (total) µg/L	500 (AgL)	82 - 810	1 of 5		
			pH (low) SU	6.5 - 9.0 (A&Ww, FBC, AgL)	5.6 - 7.9	1 of 5		
	ADEQ TMDL Program At Bronx tributary east of main adit (TS-4) SRPNT019.83	2001 - 1 field + copper	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	360	1 of 1		
				varies by hardness (A&Ww chronic)	360	1 of 1		
	ADEQ TMDL Program At BHP 005 NPDES outfall SRPNT019.07	2001 - 1 field + copper	No exceedances					
	ADEQ TMDL Program Above Cactus Breccia SRPNT018.95	2001 - 1 field + copper	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	33	1 of 1		
				varies by hardness (A&Ww chronic)	33	1 of 1		
	ADEQ TMDL Program Below Cactus Breccia SRPNT018.47	2001 - 1 field + copper	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	47	1 of 1		

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
				varies by hardness (A&Ww chronic)	47	1 of 1		
	BHP Mining - NPDES AMP1 Above Cottonwood Gulch SRPNT019.41	1999 - 2 field + metals 2000 - 1 field + metals 2001 - 2 field + metals	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<4.0 - 78	1 of 5		
				varies by hardness (A&Ww chronic)	<4.0 - 78	2 of 5		
			Turbidity (former standard) NTU	50 (A&Ww)	2.4 - 55.1	1 of 5		
	BHP Mining - NPDES AMP2 Above Cottonwood Gulch SRPNT018.91	1999 - 2 field + metals 2000 - 1 field + metals 2001 - 2 field + metals	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	9.0 - 71	1 of 5		
				varies by hardness (A&Ww chronic)	9.0 - 71	2 of 5		
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<1.0 - 3.0	1 of 5		
			Turbidity (former standard) NTU	50 (A&Ww)	0.17 - 75.3	1 of 5		
	BHP Mining - NPDES AMP3 below Cottonwood Gulch SRPNT018.49	1999 - 3 field + metals 2000 - 1 field + metals 2001 - 2 field + metals 2002 - 1 field + metals	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	24 - 78	2 of 7		
				varies by hardness (A&Ww chronic)	24 - 78	4 of 7		
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<1.0 - 4.9	2 of 7		
	BHP Mining - NPDES DW24 Below Miller Springs Gulch SRPNT017.60	1998 - 2 field + metals 1999 - 4 field + metals 2000 - 4 field + metals 2001 - 4 field + metals	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	4.0 - 63	1 of 15		
				varies by hardness (A&Ww chronic)	4.0 - 63	2 of 15		
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<1.0 - 4.4	4 of 12		
	BHP Mining - NPDES PC2UP Below Miller Springs Gulch SRPNT017.13	1998 - 2 field + metals 1999 - 4 field + metals 2000 - 4 field + metals 2001 - 4 field + metals	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<4.0 - 57	1 of 13		
				varies by hardness (A&Ww chronic)	<4.0 - 57	1 of 13		
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<1.0 - 3.3	2 of 12		
			Turbidity (former standard) NTU	50 (A&Ww)	0.73 - 111.0	1 of 13		



**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ TMDL Program At USGS Gage Below Haunted Canyon SRPNT016.18 101068	2000 - 2 full suites 2001 - 4 field + 3 copper	Copper (dissolved) µg/L	varies by hardness (A&Ww chronic)	<10 - 44	4 of 5		
				varies by hardness (A&Ww acute)	<10 - 44	3 of 5		
			Turbidity (former standard) NTU	50 (A&Ww)	60.3	1 of 1		
	BHP Mining - NPDES AMP5 Below Gold Gulch Weir & Haunted Canyon	2002 - 1 field + metals	Selenium (total) µg/L	2.0 (A&Ww chronic)	2.5	1 of 1		
	BHP Mining - NPDES AMP4 - AMP4IS Below Gold Gulch Weir & Haunted Canyon SRPNT015.49	1998 - 2 field + metals 1999 - 4 field + metals 2000 - 4 field + metals 2001 - 4 field + metals 2002 - 3 field + metals	Selenium (total) µg/L	2.0 (A&Ww chronic)	<1.0 - 4.0	1 of 16		
			Turbidity (former standard) NTU	50 (A&Ww)	1.3 - 160	4 of 17		
	<b>Summary Row</b>  A&Ww    Not attaining FC       Inconclusive FBC      Inconclusive Agl      Inconclusive Agl      Attaining	1998 - 2002  95 samples 22 sample events	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<3.0 - 2000	23 of 95 samples 6 of 22 events (in 2000 and 2001)	Not attaining	ADEQ & BHP's consultant collected 95 samples at 19 sites in 1998-2002. A copper TMDL was approved by EPA in 2001.  Assessed as "not attaining" due to copper exceedances and placed on the Planning List for TMDL follow-up monitoring, exceedance of the zinc standard, and missing core parameters: <i>Escherichia coli</i> , total boron, and total mercury.  *BHP investigated selenium exceedances in its dataset and found that the analytical method may be responsible for false positive laboratory results. Since use of an alternative laboratory analysis method, no further selenium exceedances have occurred. (Changed at all sites by the fall of 2002.)
				varies by hardness (A&Ww chronic)	<3.0 - 2000	34 of 95 samples 9 of 22 events	Not attaining	
			Copper (total) µg/L	500 (Agl)	<4.0 - 1900	3 of 95	Attaining	
				1300 (FBC)	<4.0 - 1900	1 of 95	Attaining	
			pH (low) SU	6.5 - 9.0 (A&Ww, FBC, AgL)	3.1 - 8.7	4 of 87	Attaining	
				4.5 - 9.0 (Agl)	3.1 - 8.7	1 of 87	Attaining	
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<1.0 - 4.9	11 of 57 samples 6 of 17 events	Inconclusive (see comment*)	
			Turbidity (former standard) NTU	50 (A&Ww)	0.2 - 160	8 of 69	Attaining	
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	<4.1 - 390	1 of 69 samples 1 of 22 events (in 2000)	Inconclusive	
				varies by hardness (A&Ww chronic)	<4.1 - 390	1 of 69 samples 1 of 22 events	Inconclusive	
Pinto Creek Ripper Spring Canyon - Roosevelt Lake AZ15060103-018C A&Ww, FC, FBC, Agl, AgL	ADEQ TMDL Program At USGS Gage near Pinto Valley Weir SRPNT011.44 101070	2000 - 2 partial suites 2001 - 4 field + copper	Copper (dissolved) µg/L	varies by hardness (A&Ww chronic)	<10 - 39	2 of 6		

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ Fixed Station At Henderson Ford West of Globe SRPNT007.13 100346	1998 - 4 full suites 1999 - 3 full suites 2000 - 3 full suites 2001 - 5 full suites 2002 - 3 full suites	Selenium (total) µg/L	2.0 (A&Ww chronic)	<5.0 - 14.0	3 of 3		Lab reporting limits for 15 additional selenium samples were too high to use results for assessment.
			Turbidity (former standard) NTU	50 (A&Ww)	0.3 - 180	2 of 17		
	<b>Summary Row</b>  A&Ww      Impaired FC          Attaining FBC        Attaining Agl        Attaining Agl        Attaining	<b>1998 - 2002</b>  <b>24 sampling events</b>	Copper (dissolved) µg/L	varies by hardness (A&Ww chronic)	<10 - 39	2 of 24 samples 2 of 24 events	Impaired	ADEQ collected 24 samples at 2 sites in 1998-2002. Assessed as "impaired" due to copper and selenium exceedances.
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<5.0 - 14.0	3 of 3 samples 3 of 3 events	Impaired	Note that the state laboratory used a different analytical method than the one suspected of causing false positive results for BHP (see comment in above reach).
			Turbidity (former standard) NTU	50 (A&Ww)	0.3 - 180	2 of 19	Attaining	
Pinto Creek, West Fork headwaters - Pinto Creek AZ15060103-066 A&We, PBC (tributary rule)	ADEQ TMDL Program SRWPN000.01	2001 - 1 field + copper						
	<b>Summary Row</b> A&We      Inconclusive PBC        Inconclusive	<b>2001</b> <b>1 sampling event</b>	No exceedances				Not assessed	Insufficient monitoring data to assess.
Reservation Creek headwaters - Black River AZ15060101-010 A&Wc, FC, FBC, AgL	ADEQ Biocriteria Program Above Black River SRRES000.30 100629	1998 - 1 partial suite	No exceedances					Lab reporting limits for dissolved cadmium and copper samples were too high to use results for assessment.
	<b>Summary Row</b> A&Wc      Inconclusive FC          Inconclusive FBC        Inconclusive Agl        Inconclusive	<b>1998</b> <b>1 sampling event</b>	No exceedances				Not assessed	Insufficient monitoring data to assess.
Rye Creek headwaters - Tonto Creek AZ15060105-014 A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring 100 meters above bridge SRRYE000.97 101297	2002 - 4 full suites	Dissolved oxygen mg/L	6.0 (90% saturation) (A&Ww)	2.72 - 7.42 (34.9 - 76.2%)	2 of 4		Low dissolved oxygen due to naturally occurring ground water upwelling and low flow conditions, and not anthropogenic causes. Not considered in final assessment.
	<b>Summary Row</b> A&Ww      Attaining FC          Attaining FBC        Inconclusive Agl        Attaining	<b>2002</b> <b>4 sampling events</b>	No exceedances					ADEQ collected 4 samples in 2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameter: <i>Escherichia coli</i> .
Salt River Pinal Creek - Roosevelt Lake AZ15060103-004 A&Ww, FC, FBC, Agl, AgL  <i>(Before Rodeo-Chediski Wildfire)</i>	USGS Fixed Station #09498500 Above Roosevelt Lake SRSLR055.31 100745	1998 - 3 full + 5 partial suites 1999 - 5 full + 1 partial suite 2000 - 3 full + 1 partial suite 2001 - 3 full + 1 partial suite 2002 - 2 full suites	Nitrogen (total) mg/L	2.0 (A&Ww)	0.63 - 2.1	1 of 4		
			Turbidity (former standard) NTU	50 (A&Ww)	0.57 - 180	3 of 20		

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	<b>(Before wildfire)</b> Summary Row A&Ww Inconclusive FC Attaining FBC Attaining Agl Attaining AgL Attaining	1998 - June 2002 24 samples 24 sampling events	Nitrogen (total) mg/L	2.0 (A&Ww)	0.63 - 2.1	1 of 4	Inconclusive	After wildfire data and final assessment indicated below.
			Turbidity (former standard) NTU	50 (A&Ww)	0.57 - 180	3 of 20	Attaining	
<b>(After Rodeo-Chediski Wildfire)</b>	USGS Fixed Station #09498500 Above Roosevelt Lake SRSLR055.31 100745	2002 - 5 full + 3 partial suites	Arsenic (total) µg/L	50 (FBC)	9 - 127	2 exceed July-Aug 5 attaining after		
			Chromium (total) µg/L	100 (FBC)	<1 - 168	2 exceed July-Aug 4 attaining after		
			Cyanide (total) µg/L	41 (A&Ww acute)	<10 - 120	2 exceed July-Aug 4 attaining after		
				9.7 (A&Ww chronic)	<10 - 120	2 exceed July-Aug 4 attaining after		
			Dissolved Oxygen mg/L	6.0 (A&Ww)	0.1 - 10.3	2 exceed July-Aug 6 attaining after		
			Escherichia coli CFU/100ml	235 (FBC)	18 - 2700	1 exceed July 1 attaining after		
			Lead (total) µg/L	15 (FBC)	<2 - 688	2 exceed July-Aug 4 attaining after		
				100 (Agl)	<2 - 688	2 exceed July-Aug 4 attaining after		
			Manganese (total) µg/L	10,000 (Agl)	20 - 37800	2 exceed July-Aug 5 attaining after		
			Nitrogen (total) mg/L	2.0 (A&Ww)	2.4 - 220	4 exceed July- Sept 1 attaining after		
			Phosphorus (total) mg/L	1.0 (A&Ww)	0.11 - 39	2 exceed July-Aug 4 attaining after		
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<1 - 3	1 exceed July 5 attaining after		
			Suspended Sediment Conc. mg/L	80 (A&Ww geo mean)	101 - 19900	Geo mean: 2002 = 806		Maximum base flow was calculated to be 1480 cfs based on 30 years of flow data.
			Turbidity (former standard) NTU	50 (A&Ww)	2.8 - 51000	5 exceed July- Sept 2 attaining after		
	Univ. of Az Reservoir Study Salt 1 - Above Roosevelt Lake SRSLR055.23	2002 - 2 suites	Turbidity (former standard) NTU	50 (A&Ww)	5.43 - 3000	1 of 2		

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	
	<b>(After Wildfire)</b> Summary Row  A&Ww    Inconclusive FC        Attaining FBC       Inconclusive Agl       Attaining AgL       Attaining	After June 2002  10 samples 8 sampling events	Arsenic (total) µg/L	50 (FBC)	9 - 127	2 exceed July-Aug 6 attaining after	Attaining (see comment)	USGS & Univ. of Arizona collected 10 samples at 2 sites after the Rodeo-Chediski Wildfire in June 2002.  Many parameters exceeded standards immediately after the Rodeo-Chediski Fire. Arizona's Impaired Water Identification rule indicates that listings should be restricted to parameters where exceedances are persistent, recurring, or seasonal. Sufficient samples have been collected to show that most impairment due to the fire was temporary and therefore not subject to listing.  Arizona has been experiencing a significant drought. Routine sampling will continue in this area to determine if there are residual impacts from the fire when precipitation occurs.  Reach assessed as "attaining some uses" and placed on the Planning List due to: 1. Insufficient <i>Escherichia coli</i> and nitrogen samples following the fire, 2. SSC geometric mean standard exceedance following the wildfire.
			Chromium (total) µg/L	100 (FBC)	<1 - 168	2 exceed July-Aug 5 attaining after	Attaining (see comment)	
			Cyanide (total) µg/L	41 (A&Ww acute)	<10 - 120	2 exceed July-Aug 4 attaining after	Attaining (see comment)	
				9.7 (A&Ww chronic)	<10 - 120	2 exceed July-Aug 4 attaining after	Attaining (see comment)	
			Dissolved Oxygen mg/L	6.0 (A&Ww)	0.1 - 12.7	2 exceed July-Aug 8 attaining after	Attaining (see comment)	
			<i>Escherichia coli</i> CFU/100ml	235 (FBC)	18 - 2700	1 exceed July 1 attaining after	Inconclusive	
			Lead (total) µg/L	15 (FBC)	1 - 688	2 exceed July-Aug 6 attaining after	Attaining (see comment)	
				100 (AgL)	1 - 688	2 exceed July-Aug 6 attaining after	Attaining (see comment)	
			Manganese (total) µg/L	10,000 (Agl)	20 - 37800	2 exceed July-Aug 6 attaining after	Attaining (see comment)	
			Nitrogen (total) mg/L	2.0 (A&Ww)	2.4 - 220	4 exceed July-Sept 1 attaining after	Inconclusive	
			Phosphorus (total) mg/L	1.0 (A&Ww)	0.11 - 39	2 exceed July-Aug 4 attaining after	Attaining (see comment)	
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<1 - 3	1 exceed July 5 attaining after	Attaining (see comment)	
			Suspended Sediment Conc. mg/L	80 (geometric mean) (A&Ww)	101 - 19,900	1 of 1 annual geo. mean	Inconclusive	
			Turbidity (former standard) NTU	50 (A&Ww)	2.8 - 51,000	5 exceed July-Sept 2 attaining after	Attaining (see comment)	

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
Salt River Roosevelt Lake - Apache Lake AZ15060106A-024 A&Wc, FC, FBC, DWS, AgI, AgL	Univ. of Az. Reservoir Study Salt 2 Below Roosevelt Lake SRSLR031.45	2002 - 1 Field	No exceedances					
	Summary Row A&Wc Inconclusive FC Inconclusive FBC Inconclusive DWS Inconclusive AgI Inconclusive AgL Inconclusive	2002  1 sampling event	No exceedances					Insufficient monitoring data to assess.
Salt River Stewart Mountain Dam - Verde River AZ15060106A-003 A&Wc, FC, FBC, DWS, AgI, AgL	SRP Ambient Monitoring Below Stewart Mtn. Dam SRSLR031.94	1998 - 12 partial suites 1999 - 12 partial suites 2000 - 14 partial suites 2001 - 11 partial suites 2002 - 12 partial suites	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 26	3 of 62 (All in 1999)		Lab reporting limits for 55 additional total selenium samples were too high to use results for assessment.
				varies by hardness (A&Ww chronic)	<10 - 26	3 of 62 (All in 1999)		
	USFS 319(h) Project Site 1 - Saguaro Lake Ranch SRSLR031.89	2001 - 9 <i>Escherichia coli</i> 2002 - 10 <i>Escherichia coli</i>	No exceedances					
	AGFD Routine Monitoring Below Stewart Mt. Dam SRSLR031.66	1999 - 1 field + nutrients 2000 - 1 field + nutrients	No exceedances					
	USFS 319(h) Project Site 2 - Blue Point Bridge SRSLR030.28	2001 - 9 <i>Escherichia coli</i> 2002 - 10 <i>Escherichia coli</i>	No exceedances					
	USGS Fixed Station Site #09502000 Below Stewart Mt. Dam SRSLR030.22	1999 - 3 full suites 2000 - 6 full suites 2001 - 5 full suites 2002 - 4 full suites	Dissolved oxygen mg/L	> 7.0 (A&Wc)	4.1 - 12	6 of 18		
	USFS 319(h) Project Site 3 - Bus stop 4 SRSLR028.62	2001 - 9 <i>Escherichia coli</i> 2002 - 10 <i>Escherichia coli</i>	No exceedances					
	USGS Ambient Monitoring Near Coon Bluff SRSLR027.59	1999 - 1 full suite	No exceedances					
	Univ. of Az. Reservoir Study Salt 3 - Above Verde River SRSLR027.28	2002 - 1 field	No exceedances					
	USFS 319(h) Project Site 4 - Phon-D-Sutton Above Verde River SRSLR027.06	2001 - 9 <i>Escherichia coli</i> 2002 - 10 <i>Escherichia coli</i>	<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	<2 - 300	2 of 19		

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					COMMENTS
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	
	<b>Summary Row</b>  A&Wc    Impaired FC        Attaining FBC      Inconclusive DWS      Attaining AgI       Attaining AgL       Attaining	1998 - 2002  147 samples 102 sampling events	Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	<1 - 26	3 of 81 events (not exceeded in last 3 years)	Attaining	Multiple agencies collected a total of 147 samples at 9 sites in 1998 - 2002. Assessed as "impaired" due to copper exceedances and low dissolved oxygen.  ADEQ assessed the FBC designated use as "inconclusive" rather than "impaired" for the following reasons: 1. One of the two <i>E. coli</i> exceedances was very close to the standard (result is 240, standard is 235). 2. The bacterial lab method provides an <u>estimate</u> of bacterial density (see discussion in Chapter III). 3. The two exceedances represent a small proportion of the total number of samples on this reach (2 of 96 samples, 2 of 40 events).
				varies by hardness (A&Wc chronic)	<1 - 26	3 of 81 samples 3 of 81 events	Impaired	
			Dissolved oxygen mg/L	> 7.0 (A&Wc)	4.1 - 15.7	6 of 21	Impaired	
			<i>Escherichia coli</i> CFU/100ml	235 (FBC)	1 - 300	2 of 96 samples 2 of 40 events (in 2001 and 2002)	Inconclusive (see comment)	
Snake Creek headwaters - Black River AZ15060101-045 A&Wc, FC, FBC, AgL Unique Water	ADEQ Biocriteria Program Near Bear Wallow Wilderness SRSNK001.19 100643	1998 - 1 partial suite	No exceedances					Lab reporting limits for dissolved copper were too high to use results for assessment.
	ADEQ Ambient Monitoring Above Black River SRSNK000.84 101298	2001 - 1 full suite 2002 - 1 full suite	No exceedances					
	<b>Summary Row</b>  A&Wc    Inconclusive FC        Inconclusive FBC      Inconclusive AgL       Inconclusive	1998-2002  3 sampling events	No exceedances					ADEQ collected 3 samples at 2 sites in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: <i>Escherichia coli</i> , dissolved metals (copper and zinc), and total metals (mercury, copper and lead).
Spring Creek headwaters -Tonto Creek AZ15060105-010 A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring West of Young SRSPI006.79 100380	2001 - 1 partial suite 2002 - 2 full + 1 partial suites	No exceedances					
	<b>Summary Row</b> A&Ww    Attaining FC        Attaining FBC      Inconclusive AgL       Attaining	2001 - 2002  4 sampling events	No exceedances					ADEQ collected 4 samples in 2001- 2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameter: <i>Escherichia coli</i> .
Stinky Creek Fort Apache Reservation - West Fork Black River AZ15060101-352A A&Wc, FC, FBC, AgL Unique Water	ADEQ Biocriteria Program Downstream of Road #116 SRSTI001.76 100652	1998 - 1 partial suite	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.54 (83%)	1 of 1		Lab reporting limits for dissolved cadmium, copper, and zinc were too high to use results for assessment.
	ADEQ Ambient Above West Fork Black River SRSTI000.25 101303	2001 - 1 full suite 2002 - 1 partial suite	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.52 - 8.15 (80.8 - 84.4%)	1 of 2		Low dissolved oxygen due to naturally occurring low flow conditions and pooling, and not anthropogenic causes. Not considered in final assessment.



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STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row  A&Wc Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive	1998 - 2002  3 sampling events	No exceedances					ADEQ collected 3 samples at 2 sites in 1998-2002. Assessed as "inconclusive" due to missing core parameters: <i>Escherichia coli</i> , dissolved metals (copper, cadmium, and zinc), and total metals (mercury, copper and lead).
Tonto Creek headwaters - unnamed tributary at 34 18 10 / 111 04 14 AZ15060105-013A A&Wc, FC, FBC, Agl, AgL	ADEQ TMDL Program At headwater spring, Above AGFD Fish Hatchery SRTON073.00 101016	2000 - 3 partial suites 2002 - 6 field + nutrients	No exceedances					
	ADEQ Ambient Monitoring At headwater spring, Below hatchery monitoring point SRTON043.98 100350	1999 - 1 nutrients	No exceedances					
	ADEQ TMDL Program Below AGFD Fish Hatchery Outfall SRTON072.66 101017	2000 - 3 partial suites 2002 - 6 field + nutrients	Nitrogen mg/L	0.5 annual mean (A&Wc)	0.29 - 0.74 (0.64 annual mean)	1 of 1 year (2002)		
	ADEQ Ambient Monitoring Below AGFD Fish Hatchery, North of Kohl's Ranch SRTON043.52 100351	1999 - 1 nutrients 2001 - 1 full suite 2002 - 3 full suites	No exceedances					
	ADEQ TMDL Program Above Baptist Camp and Dick Williams Creek SRTON071.72 101018	2000 - 3 field partial suites 2002 - 6 field + nutrients	No exceedances					
	ADEQ TMDL Program Below Baptist Camp road SRTON070.86 101019	2000 - 3 field, nutrients, + <i>Escherichia coli</i> 2002 - 6 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.7 - 9.1 (89 - 113%)	1 of 9		
	ADEQ TMDL Program Above Horton Creek SRTON069.87 101020	2000 - 3 partial suites 2002 - 6 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.4 - 17.1 (86 - 166%)	2 of 9		
			<i>Escherichia coli</i> CFU/100ml	235 (FBC)	12 - 659	1 of 3		
	ADEQ TMDL Program Below Horton Creek SRTON069.80 101021	2000 - 3 partial suites 2002 - 6 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.5 - 10.3 (86 - 104%)	1 of 9		
			<i>Escherichia coli</i> CFU/100ml	235 (FBC)	33 - 436	1 of 3		
	ADEQ TMDL Program Above USGS gage site SRTON068.97 101629	2000 - 2 <i>Escherichia coli</i>	No exceedances					

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ TMDL Program Above Highway 260, USGS gage site SRTON068.95 101022	2000 - 3 partial suites 2002 - 6 field + nutrients	Turbidity (former standard) NTU	10 (A&Wc)	3.42 - 172	3 of 9		
	ADEQ TMDL Program Below Kohls Ranch, Above Tontozona SRTON068.00 101023	2000 - 3 partial suites 2002 - 6 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	4.9 - 7.8 (60 - 105%)	6 of 9		
			Turbidity (former standard) NTU	10 (A&Wc)	3.3 - 249	3 of 9		
	ADEQ TMDL Program Above Christopher Creek SRTON066.90 101024	2000 - 3 partial suites 2002 - 6 field + nutrients	Turbidity (former standard) NTU	10 (A&Wc)	7.9 - 193	5 of 9		
	ADEQ Fixed Station Below Christopher Creek SRTON038.81 100360	1999 - 3 full suites 2000 - 3 full suites 2001 - 5 full suites 2002 - 4 full suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.3 - 11.6 (77 - 103%)	1 of 14		
			Turbidity (former standard) NTU	10 (A&Wc)	1.4 - 71.8	8 of 14		
	<b>Summary Row</b>  A&Wc    Impaired FC        Attaining FBC      Not attaining Agl      Attaining AgL      Attaining	1999 - 2002  103 samples 15 sampling events	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	4.9 - 17.1 (60 - 166%)	11 of 99	Attaining	ADEQ collected 103 samples at 13 sites in 1999-2002. EPA assessed this reach as "impaired" due to nitrogen exceedance.  <i>Escherichia coli</i> TMDL approved in 2004. Placed on the Planning List for TMDL follow-up monitoring.  Also placed on the Planning List due to exceedances of the former turbidity standard. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.
			<i>Escherichia coli</i> CFU/100ml	235 (FBC)	<1 - 659	1 of 15 events (in 2000)	Not attaining	
			Nitrogen mg/L	0.5 annual mean (A&Wc)	0.29 - 0.74 (0.64 annual mean)	1 of 1 annual mean (2002)	Impaired	
			Turbidity (former standard) NTU	10 (A&Wc)	1.3 - 249	19 of 99 (19 of 41 below USGS gage)	Inconclusive	
Tonto Creek unnamed tributary at 34 18 10 / 111 04 14 to Haigler Creek AZ15060105-013B A&Ww, FC, FBC, Agl, AgL	ADEQ TMDL Program Above Bear Flats SRTON065.38 101025	2000 - 3 partial suites 2002 - 6 field + nutrients	<i>Escherichia coli</i> CFU/100ml	235 (FBC)	1 - 344	2 of 3		1 <i>Escherichia coli</i> exceedance was related to a storm
			Nitrogen mg/L	2.0 (A&Ww)	0.21 - 2.8	1 of 9		
				0.5 annual mean (A&Ww)	0.21 - 2.8 0.56 annual mean	1 of 1 year (2002)		
			Turbidity (former standard) NTU	50 (A&Ww)	16 - 898	3 of 9		

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ Ambient Monitoring Above Bear Flats, South of Kohls Ranch SRTON038.32 100357	2002 - 1 metals suite	No exceedances					Dissolved metals could not be assessed due to lack of water hardness data. Only total metal results were assessed.
	ADEQ TMDL Program Below Bear Flats access road SRTON064.22 101026	2000 - 3 partial suites 2002 - 6 field + nutrients	<i>Escherichia coli</i> CFU/100ml	235 (FBC)	5 - 525	2 of 3		
			Turbidity (former standard) NTU	50 (A&Ww)	19.1 - 119	3 of 9		
	ADEQ Ambient Monitoring Below Bear Flats, south of Kohls Ranch SRTON037.17 100358	2001 - 1 full suite 2002 - 3 full suites	Turbidity (former standard) NTU	50 (A&Ww)	2.4 - 62.7	1 of 4		
	<b>Summary Row</b>  A&Ww    Impaired FC        Attaining FBC       Not attaining Agl       Attaining AgL       Attaining	<b>2000 - 2002</b>  23 samples 13 sampling events	<i>Escherichia coli</i> CFU/100ml	235 (FBC)	1 - 525	3 of 7 samples 2 of 7 events (in 2000)	Not attaining	ADEQ collected 23 samples at 4 sites in 2000 - 2002. EPA assessed this reach as "impaired" due to nitrogen exceedance.  <i>Escherichia coli</i> TMDL approved in 2004. Placed on the Planning List for <i>Escherichia coli</i> TMDL follow-up monitoring.  Also placed on the Planning List due to exceedances of the former turbidity standard. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.
			Nitrogen mg/L	2.0 (A&Ww)	0.21 - 2.8	1 of 20	Attaining	
				0.5 annual mean (A&Ww)	0.21 - 2.8 (0.56 annual mean)	1 of 1 year (in 2002)	Impaired	
			Turbidity (former standard) NTU	50 (A&Ww)	2.4 - 898	7 of 21	Inconclusive (see comment)	
Tonto Creek Rye Creek - Gun Creek AZ15060105-008 A&Ww, FC, FBC, Agl, AgL	ADEQ Fixed Station Above USGS gage Near Jakes Corner SRTON015.88 100349	1998 - 4 full suites 1999 - 3 full suites 2000 - 3 full suites 2001 - 5 full suites 2002 - 2 partial + 1 full suite	No exceedances					
	<b>Summary Row</b>  A&Ww    Attaining FC        Attaining FBC       Attaining Agl       Attaining AgL       Attaining	<b>1998 - 2002</b>  18 sampling events	No exceedances					ADEQ collected 18 samples in 1998-2002. Assessed as "attaining all uses."

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
LAKE MONITORING DATA								
Apache Lake AZL15060106A-0070 A&Wc, FC, FBC, DWS, Agl, AgL	AGFD Routine Monitoring SRAPA - A1 (site A1)	2001- 4 field + nutrients	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	2.3 - 8.9	2 of 4		Some nitrogen and phosphorus samples were obtained, but were not composite samples at 1, 2 & 5 meters depth as required for nutrient standards for this lake (R18-11-109.G Footnote 6). Therefore, these nutrient samples were not considered in the final assessment and do not count as core parameter samples.
	AGFD Routine Monitoring SRAPA - A2 (site A2)	2001- 5 field + nutrients	No exceedances					
	AGFD Routine Monitoring SRAPA - A3 (site A3)	2001- 5 field + nutrients	No exceedances					
	AGFD Routine Monitoring SRAPA - BC (Burnt Corral)	1999 - 4 partial suites	No exceedances					
	AGFD Routine Monitoring SRAPA - A (dam site)	1999 - 4 partial suites	No exceedances					
	AGFD Routine Monitoring SRAPA - TR (Turtle Rock)	1999 - 3 partial suites	No exceedances					
	AGFD Urban Lakes Study SRAPA - A (deepest)	2002 - 2 partial suites	No exceedances					
	AGFD Urban Lakes Study SRAPA - B (mid lake)	2002 - 1 partial suites	No exceedances					
	AGFD Urban Lakes Study SRAPA (Site C)	2002 - 1 field	No exceedances					
	Univ. of Az. Reservoir Study SRAPA - A (Site A)	1999 - 4 partial suites 2000 - 8 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.7 - 10.7 (67 - 120%)	1 of 4		Field staff documented recent lake turnover which caused the low dissolved oxygen and not anthropogenic causes. Therefore, this naturally occurring low dissolved oxygen was not included in the final assessment.
			pH (high) SU	6.5 - 9.0 (A&Wc, FBC, AgL, DWS)	7.8 - 9.3	1 of 12		
	Univ. of Az. Reservoir Study SRAPA - B (Site B)	1999 - 4 partial suites 2000 - 8 partial suites	No exceedances					
	Univ. of Az. Reservoir Study SRAPA - C (Site C)	1999 - 4 field 2000 - 8 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	1.2 - 8.9 (12 - 84%)	4 of 5		
	ADEQ Lakes Program SRAPA - A (deepest) 100997	2000 - 1 suite 2001 - 1 field + VOCs	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.0 - 15.5 (60 - 182%)	1 of 2		
	ADEQ Lakes Program SRAPA-MAR (marina) 100998	2000 - 1 suite 2001 - 1 field + VOCs	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.6 - 14.8 (79 - 182%)	1 of 2		
	ADEQ Lakes Program SRAPA-E 100008	2000 - 1 suite	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.4 (77%)	1 of 1		
Summary Row	1998 - 2002  70 samples 24 sampling events	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	1.1 - 15.5 (12-120%)	7 of 45	Inconclusive	Univ. of Arizona's Reservoir Monitoring Project, AGFD, and ADEQ collected a total of 70 samples during 24 sampling events in 1998-2002. Assessed as "attaining some uses" and placed on the Planning List due to low dissolved oxygen and missing core parameters: <i>Escherichia coli</i> , phosphorus, nitrogen, and fluoride.	
		pH (high) SU	6.5 - 9.0 (A&Wc, FBC, DWS, AgL, Agl)	7.4 - 9.3	1 of 70	Attaining		
Big Lake AZL15060101-0160 A&Wc, FC, FBC, DWS, Agl, AgL	ADEQ Lakes Program SRBIG - A (dam site) 101322	2001 - 1 partial suite	No exceedances					
	ADEQ Lakes Program SRBIG - B (Mid lake) 101355	2002 - 2 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.6 - 10.1 (68 - 85%)	1 of 2		

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ Lakes Program SRBIG - D 100013	2002 - 1 field	No exceedances					
	ADEQ Lakes Program SRBIG - SH (shoreline) 101358	2002 - 1 <i>Escherichia coli</i>	No exceedances					
	ADEQ Lakes Program SRBIG - SBR (west of floating dock) 101359	2002 - 1 <i>Escherichia coli</i>	No exceedances					
	<b>Summary Row</b>  A&Wc Inconclusive FC Attaining FBC Inconclusive DWS Attaining Agl Attaining AgL Attaining	<b>2001 - 2002</b>  6 total samples 3 sampling events	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.6 - 10.6	1 of 4	Inconclusive	ADEQ collected 6 samples during 3 sampling events in 2001-2002. Assessed as "attaining some uses" and added to the Planning List due to low dissolved oxygen and missing core parameters: <i>Escherichia coli</i> and dissolved cadmium.
Canyon Lake AZL15060106A-0250 A&Wc, FC, FBC, DWS, Agl, AgL	Univ. of Az. Reservoir Study SRCAN - A (deepest)	1999 - 4 partial suites 2000 - 8 partial suites	No exceedances					Some nitrogen and phosphorus samples were obtained, but were not composite samples at 1, 2 & 5 meters depth as required for nutrient standards for this lake (R18-11-109.G Footnote 6). Therefore, these nutrient samples were not considered in the final assessment and do not count as core parameter samples.
	Univ. of Az. Reservoir Study SRCAN - B (mid lake)	1999 - 4 partial suites 2000 - 8 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.7 - 10.7 (87 - 100%)	1 of 7		
	Univ. of Az. Reservoir Study SRCAN - C (site C)	1999 - 4 partial suites 2000 - 8 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	2.1 - 9.8 (24 - 89%)	3 of 5		
	AGFD Urban Lakes Program SRCAN - A (site A)	2002 - 2 partial suites	Ammonia mg/L	varies by pH & temperature (A&Wc chronic)	0.07 - 0.47	1 of 2		
	AGFD Urban Lakes Program SRCAN - B (site B)	2002 - 2 partial suites	No exceedances					
	AGFD Routine Monitoring SRCAN - C1 (site C1)	2001 - 5 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	2.2 - 8.5	2 of 5		
	AGFD Routine Monitoring SRCAN - C2 (site C2)	2001 - 5 partial suites	No exceedances					
	AGFD Routine Monitoring SRCAN - C3 (site C3)	2001 - 5 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.7 - 10.2	1 of 5		
	AGFD Routine Monitoring SRCAN - Mid Basin	1998 - 1 partial suite	No exceedances					
	AGFD Routine Monitoring SRCAN - Up Lake	1998 - 1 partial suite	No exceedances					
	<b>Summary Row</b>  A&Wc Impaired FC Inconclusive FBC Inconclusive DWS Inconclusive Agl Inconclusive AgL Inconclusive	<b>1999-2000</b>  49 samples 20 sampling events	Ammonia mg/L	varies by pH & temperature (A&Wc chronic)	0.1 - 0.47	1 of 44 1 of 20 events	Inconclusive	Univ. of Arizona's Reservoir Monitoring Project and AGFD collected 49 samples during 20 sampling events in 1998-2002. Assessed as "impaired" due to low dissolved oxygen.
			Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	2.2 - 10.7	7 of 35	Impaired	Also on the Planning List due to ammonia exceedance and missing core parameters: <i>Escherichia coli</i> , total fluoride, total boron, nitrate, nitrogen, phosphorus, total metals (mercury, arsenic, chromium, lead, and copper), and dissolved metals (copper, cadmium, and zinc).
Crescent Lake AZL15060101-0420 A&Wc, FC, FBC, Agl, AgL	ADEQ Lakes Program SRCRE - B (mid lake) 100993	1999 - 1 partial suite 2001 - 1 partial suite 2002 - 2 full suites	pH (high) SU	6.5 - 9.0 (A&Wc, FBC, Agl, Agl)	7.6 - 9.8	2 of 4		Lab reporting limits for copper and cadmium were too high to use results for assessment.

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			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	
			Nitrogen mg/L	2.0 (A&Wc)	1.56 - 2.05	1 of 4		
	ADEQ Lakes Program SRCRE - BR (boat ramp) 101320	2002 - 2 Escherichia coli (same date as at B)	No exceedances					
	AGFD Lakes Program SRCRE - Mid Lake 101320	1998 - 2 partial suite 2001 - 1 partial suite	No exceedances					
	AGFD Lakes Program SRCRE - Dam Site 101320	1998 - 2 partial suite	pH (high) SU	6.5 - 9.0 (A&Wc, FBC, Agl, Agl)	8.5 - 9.6	1 of 2		
	<b>Summary Row</b>	<b>1998 - 2002</b>	<b>pH (high) SU</b>	<b>6.5 - 9.0 (A&amp;Wc, FBC, Agl, Agl)</b>	<b>7.6 - 9.8</b>	<b>3 of 9</b>	<b>Inconclusive (Impaired*)</b>	<b>ADEQ and AGFD collected 11 samples during from 4 sites in 1998- 2002. Assessed as "impaired" due to pH exceedances.</b>
	<b>A&amp;Wc    Impaired FC        Attaining FBC       Impaired Agl       Impaired Agl       Impaired</b>	<b>11 samples 8 sampling events</b>						
			<b>Nitrogen (total) mg/L</b>	<b>2.0 (A&amp;Wc)</b>	<b>1.00 - 2.05</b>	<b>1 of 9</b>	<b>Inconclusive</b>	<b>*EPA placed this reach on the 2002 303(d) List due to pH exceedances in 5 of 7 samples. Once listed, the surface water cannot be delisted until a TMDL is complete or data indicate that designated uses are being attained.</b>
Roosevelt Lake AZL15060103-1240 A&Ww, FC, FBC, DWS, Agl, AgL  <b>(Before Rodeo-Chediski Wildfire)</b>	Univ. of Az. Reservoir Study SRROO - A (deepest)	1999 - 4 partial suites 2000 - 8 partial suites	Dissolved oxygen mg/L	6.0 (90% saturation) (A&Ww)	4.9 - 10.5	1 of 4		Some nitrogen and phosphorus samples were obtained, but were not composite samples at 1, 2 & 5 meters depth as required for nutrient standards for this lake (R18-11-109.G Footnote 6). Therefore, these nutrient samples were not considered in the final assessment and do not count as core parameter samples.
	Univ. of Az. Reservoir Study SRROO - B (mid lake)	1999 - 4 partial suites 2000 - 6 partial suites	Turbidity (former standard) NTU	25 (A&Ww)	2.1 - 112	5 of 10		
	Univ. of Az. Reservoir Study SRROO - B2	1999 - 4 partial suites 2000 - 8 partial suites	Turbidity (former standard) NTU	25 (A&Ww)	2.0 - 83	4 of 12		
	Univ. of Az. Reservoir Study SRROO - C	2000 - 1 partial suite	Turbidity (former standard) NTU	25 (A&Ww)	44.7	1 of 1		
	Univ. of Az. Reservoir Study SRROO - C2	1999 - 1 partial suite	No exceedances					
	AGFD Urban Lakes Program SRROO - A (deepest)	2002 - 2 partial suites	Manganese (total) µg/L	980 (DWS)	220 - 1040	1 of 2		
	AGFD Urban Lakes Program SRROO - B (mid lake)	2002 - 2 partial suites	Turbidity (former standard) NTU	25 (A&Ww)	10.9 - 40.8	1 of 2		
	AGFD Urban Lakes Program SRROO - C	2002 - 2 partial suites	Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	4.2 - 11.3	1 of 2		
	AGFD Routine Monitoring SRROO (Windy Hill site)	2000 - 5 partial suites 2002 - 1 partial suite	No exceedances					



**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	AGFD Routine Monitoring Between Hill & Dam SRROO	2002 - 1 partial suite	Copper (total) µg/L	500 (AgL)	715	1 of 1		
	AGFD Routine Monitoring SRROO (R3 site)	2001 - 5 partial suites	No exceedances					
	AGFD Routine Monitoring SRROO (Salt River arm)	2000 - 8 partial suites 2001 - 3 partial suites	Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	5.6 - 13.2	1 of 12		
	AGFD Routine Monitoring SRROO (dam site)	2000 - 10 partial suites 2001 - 4 partial suites 2002 - 2 partial suites	No exceedances					
	AGFD Routine Monitoring SRROO (Tonto Creek arm)	2000 - 9 partial suites 2001 - 3 partial suites 2002 - 1 partial suite	No exceedances					
	ADEQ Clean Lakes Program SRROO - A (deepest) 100075	2000 - 1 partial suite 2001 - 1 partial suite	No exceedances					
	ADEQ Clean Lakes Program SRROO - B (mid lake) 100076	2000 - 1 partial suite	No exceedances					
	ADEQ Clean Lakes Program SRROO - C 100077	2000 - 1 partial suite 2001 - 1 partial suite	No exceedances					
	<b>(Before Rodeo- Chediski Fire)</b>  Summary Row A&Ww Inconclusive FC Attaining FBC Inconclusive DWS Attaining Agl Attaining AgL Attaining	1999 - 2002  95 samples 30 sampling events  Final assessment	Copper (total) µg/L	500 (AgL)	5 - 715	1 of 21	Attaining	Univ. of Arizona Reservoir Monitoring Project, ADEQ, & AGFD collected a total of 95 samples at 17 sites in 1998 - 2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters and exceedances of the former turbidity standard.  Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.  Missing core parameters: <i>Escherichia coli</i> , total nitrogen, and total phosphorus.
			Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	4.2 - 12.4	3 of 78	Attaining	
			Manganese (total) µg/L	980 (DWS)	5 - 1040	1 of 47	Attaining	
			Turbidity (former standard) NTU	25 (A&Ww)	0.05 - 112	11 of 46	Inconclusive (see comment)	
Roosevelt Lake AZL15060103-1240 A&Ww, FC, FBC, DWS, Agl, AgL  <b>(After Rodeo-Chediski Wildfire)</b>	AGFD Routine Monitoring Salt Arm Inflow/Salt Mouth SRROO - AGFD	2002 - 2 suites	Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	5.4	1 of 1		These AGFD samples were assessed separately to show the impacts of the Rodeo-Chediski Wildfire in June 2002 on Roosevelt Lake. Two samples were obtained after the fire, July 19, 2002 and October 8, 2002. Exceedances occurred only in the July sampling event.
			Lead (total) µg/L	15 (FBC, DWS)	<10 - 35	1 of 2		
			Manganese (total) µg/L	98 (DWS)	84 - 1680	1 of 2		
			Nitrogen (total) mg/L	1.00 (A&Ww)	0.58 - 5.31	1 of 2		
			Phosphorus (total) mg/L	0.6 (A&Ww)	0.10 - 1.67	1 of 2		

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					COMMENTS
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	
	Summary Row (Post Rodeo-Chediski Fire)	July & October 2002  2 total samples 2 sample events  (After Rodeo-Chediski Wildfire in June 2002. Not used in assessment. See comments.)	Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	5.4	1 of 1	Not assessed (see comment)	AGFD collected 2 samples after the Rodeo-Chediski Wildfire near the Salt River mouth to Roosevelt Lake.  Several parameters exceeded standards immediately after the Rodeo-Chediski Fire. Arizona's Impaired Water Identification rule indicates that listings should be restricted to parameters where exceedances are persistent, recurring, or seasonal. Sufficient samples have been collected in the Salt River above the Lake (see Salt River monitoring) to show that most impairment due to the fire was temporary and therefore not subject to listing.  Roosevelt Lake will remain on the Planning List for more monitoring to determine whether there are any residual impacts due to the fire.  Note that <b>no</b> turbidity or SSC samples were taken following the fire.
			Lead (total) µg/L	15 (FBC, DWS)	<10 - 35	1 of 2	Not assessed (see comment)	
			Manganese (total) µg/L	98 (DWS)	84 - 1680	1 of 2	Not assessed (see comment)	
			Nitrogen (total) mg/L	1.00 (A&Ww)	0.58 - 5.31	1 of 2	Not assessed (see comment)	
			Phosphorus (total) mg/L	0.6 (A&Ww)	0.10 - 1.67	1 of 2	Not assessed (see comment)	
Saguaro Lake AZL15060106A-1290 A&Wc, FC, FBC, DWS, AgI, AgL	Univ. of Az. Reservoir Study SRSAG - A	1999 - 4 partial suites 2000 - 8 partial suites	No exceedances					Some nitrogen and phosphorus samples were obtained, but were not composite samples at 1, 2 & 5 meters depth as required for nutrient standards for this lake (R18-11-109.G Footnote 6). Therefore, these nutrient samples were not considered in the final assessment and do not count as core parameter samples.
	Univ. of Az. Reservoir Study SRSAG - B	1999 - 4 partial suites 2000 - 8 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.3 - 10.5	1 of 4		
			pH (high) SU	6.5 - 9.0 (A&Wc, FBC, DWS, AgI, AgL)	7.9 - 9.3	2 of 12		
	Univ. of Az. Reservoir Study SRSAG - C	1999 - 4 field 2000 - 8 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.2 - 11.2	2 of 5		
	AGFD Urban Lakes Study SRSAG - A	2002 - 2 partial suites	No exceedances					
	AGFD Urban Lakes Study SRSAG - B	2002 - 2 partial suites	No exceedances					
	AGFD Routine Monitoring SRSAG - UL (up lake)	1998 - 1 field	No exceedances					
	AGFD Routine Monitoring SRSAG - S1	2001 - 5 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	3.4 - 9.3	1 of 5		
	AGFD Routine Monitoring SRSAG - S2	2001 - 5 partial suites	No exceedances					
	AGFD Routine Monitoring SRSAG - S3	2001 - 5 partial suites	No exceedances					
	AGFD Routine Monitoring SRSAG - A (dam site)	1998 - 1 field 1999 - 10 partial suites	No exceedances					
	AGFD Routine Monitoring SRSAG (Perrigrin Cove)	1998 - 1 field 1999 - 10 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.2 - 10 (76 - 110%)	1 of 10		

Low dissolved oxygen attributed to natural lake turnover of the water column in October 1999, a naturally-occurring condition. Not used in the final assessment.

**TABLE 15. SALT WATERSHED -- 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCE OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD DESIGNATED USE	RANGE OF RESULTS	FREQUENCY EXCEEDED	DESIGNATED USE SUPPORT	COMMENTS
	AGFD Routine Monitoring SRSAG - MF (below Mormon Flat Dam)	1998 - 1 field 1999 - 1 partial suite 2001 - 1 partial suite	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6 - 8 (70 - 103%)	2 of 3		
			pH (high) SU	6.5 - 9.0 (A&Wc, FBC, DWS, Agl, AgL)	8.0 - 9.6	1 of 3		
	AGFD Routine Monitoring Above Bagley Flats SRSAG	1999 - 7 partial suites 2001 - 3 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.1 - 9.9 (73 - 107%)	1 of 11		
	ADEQ Lakes Program SRSAG-BJ 100081	1999 - 1 partial suite 2001 - 4 partial suites 2002 - 1 VOC	Dissolved Oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.0 - 13.5	1 of 4		
			Fluoride (total) µg/L	4000 (DWS)	200 - 15800	1 of 4		
			pH (high) SU	6.5 - 9.0 (A&Wc, FBC, DWS, Agl, AgL)	7.5 - 9.4	2 of 4		
	ADEQ Lakes Program SRSAG-A 100082	1999 - 1 partial suite 2000 - 1 partial suite 2001 - 2 partial suites 2002 - 2 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.6 - 11.4	1 of 6		Low dissolved oxygen attributed to natural lake turnover of the water column in October, a naturally-occurring condition. Not used in the final assessment.
	ADEQ Lakes Program At Marina SRSAG-MAR1 100994	2000 - 1 VOC 2001 - 1 Field + 2 VOC	No exceedances					
	ADEQ Lakes Program SRSAG-MAR2 100995	1999 - 1 field 2000 - 1 VOCs	No exceedances					
	ADEQ Lakes Program SRSAG-BAG 101001	1999 - 1 partial suite	No exceedances					
	Summary Row  A&Wc Inconclusive FC Attaining FBC Inconclusive DWS Attaining Agl Attaining AgL Attaining	1998 - 2002  101 samples 37 sampling events	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	3.4 - 13.5	4 of 82	Attaining	ADEQ & AGFD collected a total of 101 samples from 18 sites in 1998-2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters: <i>Escherichia coli</i> , total nitrogen, and total phosphorus.
			Fluoride (total) µg/L	4000 (DWS)	200 - 15800	1 of 16	Attaining	
			pH (high) SU	6.5 - 9.0 (A&Wc, FBC, DWS, Agl, AgL)	7.5 - 9.6	5 of 101	Attaining	

**TABLE 16. SALT RIVER WATERSHED — ASSESSMENT, PLANNING LIST, AND 303(d) STATUS**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
<b>SALT WATERSHED -- STREAM ASSESSMENTS</b>				
Bear Wallow Creek North and South Forks - Black River 6 miles AZ15060101-023 Unique Water	A&Wc Inconclusive FC Attaining FBC Inconclusive AgL Attaining Category 2 — Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : <i>Escherichia coli</i> and dissolved copper.		
Bear Wallow Creek, North Fork headwaters - Bear Wallow Creek 5 miles AZ15060101-022 Unique Water	A&Wc Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive Category 3 — Inconclusive	On the Planning List due to <u>missing core parameters</u> : <i>Escherichia coli</i> , dissolved metals (copper and zinc), and total metals (mercury, copper, and lead).		
Bear Wallow Creek, South Fork headwaters - Bear Wallow Creek 4 miles AZ15060101-258	A&Wc Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive Category 3 — Inconclusive	On the Planning List due to insufficient monitoring data to assess (only 2 samples).		
Beaver Creek headwaters - Black River 13 miles AZ15060101-008	A&Wc Inconclusive FC Attaining FBC Attaining AgL Attaining AgL Attaining Category 2 — Attaining Some Uses	On the Planning List due to: 1. <u>Missing core parameter</u> : dissolved copper. 2. Exceedance of the former turbidity standard (2 of 8 samples). Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.		
Black River Beaver Creek - Reservation Creek 11 miles AZ15060101-007	A&Wc Inconclusive FC Attaining FBC Inconclusive DWS Attaining AgL Attaining AgL Attaining Category 2 — Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : <i>Escherichia coli</i> and dissolved copper.		
Black River, East Fork headwaters - Black River 12 miles AZ15060101-009	A&Wc Inconclusive FC Attaining FBC Attaining DWS Attaining AgL Attaining AgL Attaining Category 2 — Attaining Some Uses	On the Planning List due to <u>missing core parameter</u> : dissolved copper.		
Black River, West Fork headwaters - Black River East Fork 15 miles AZ15060101-048	A&Wc Inconclusive FC Attaining FBC Attaining DWS Attaining AgL Attaining AgL Attaining Category 2 — Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : dissolved metals (copper, cadmium, and zinc).		
Bloody Tanks Wash Schultz Ranch - Miami Wash 7 miles AZ15060103-034B	A&We Inconclusive PBC Inconclusive Category 3 – Inconclusive	No current monitoring data. Added to the Planning List in 2002 due to <u>copper</u> exceedance (1 of 1 sample). (Previously on the 303(d) List due to copper but delisted in 2002 due to insufficient monitoring data as required in the Impaired Water Identification Rule.)		
Campaign Creek headwaters - Pinto Creek 17 miles AZ15060103-037	A&Ww Attaining FC Attaining FBC Attaining AgL Attaining Category 1 — Attaining All Uses			

**TABLE 16. SALT RIVER WATERSHED — ASSESSMENT, PLANNING LIST, AND 303(d) STATUS**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
Canyon Creek headwaters - White Mountain Apache Res. 9 miles AZ15060103-014	A&Wc Inconclusive FC Attaining FBC Attaining DWS Attaining Agl Attaining Agl Attaining Category 2 — Attaining Some Uses	On the Planning List due to fish kill in 2002 related to the Rodeo-Chediski Fire. Further monitoring is needed to determine long-term impacts from the fire.		
Cherry Creek tributary at 34 05 09 / 110 56 04 - Salt River AZ15060103-015B (Reach was split into coldwater and warmwater segments since the last assessment. No current data in 015A.)	A&Wc Attaining FC Attaining FBC Attaining Agl Attaining Agl Attaining Category 1 — Attaining All Uses			
Christopher Creek headwaters - Tonto Creek 8 miles AZ15060105-353	A&Wc Inconclusive FC Attaining FBC Not attaining Agl Attaining Agl Attaining Category 4 -- Not attaining	On the Planning List due to: 1. <u>Escherichia coli</u> TMDL follow-up monitoring (exceedances in 2 of 7 sampling events). 2. Former turbidity standard exceedances (9 of 54 samples). Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.	Delist turbidity. The turbidity standard was repealed in 2002. Move to the Planning List due to exceedances of the former standard.	
Coon Creek Unnamed tributary at 33 46 42 / 110 54 25 - Salt River 10 miles AZ15060103-039B (Reach was split into coldwater and warmwater segments since the last assessment. No current data in 039A.)	A&Ww Attaining FC Attaining FBC Attaining Agl Attaining Category 1 — Attaining All Uses			
Cottonwood Canyon headwaters - Pinto Creek 2 miles AZ15060103-891	A&We Inconclusive PBC Inconclusive Category 3 — Inconclusive	On the Planning List due to insufficient monitoring data to assess (only 2 samples).		
Deer Creek headwaters - Rye Creek 12 miles AZ15060105-018	A&Wc Attaining FC Attaining FBC Attaining Category 1 — Attaining All Uses			
Fish Creek headwaters - Black River 14 miles AZ15060101-032	A&Ww Inconclusive FC Attaining FBC Inconclusive Agl Attaining Agl Attaining Category 2 — Attaining Some Uses	On the Planning List due to: 1. <u>Acute and chronic copper</u> exceedance (1 of 1 sampling event). 2. <u>Missing core parameters</u> : <i>Escherichia coli</i> and dissolved metals (copper and zinc).		
Gibson Mine tributary headwaters - Pinto Creek 1 mile AZ15060103-887	A&Ww Not attaining FC Inconclusive FBC Inconclusive Category 4A — Not attaining	On the Planning List due to: 1. Phase II TMDL and follow up monitoring for the TMDL. <u>Copper</u> exceeded standards in 5 of 5 sampling events. 3. <u>Low pH</u> (1 of 4 samples). 4. <u>Zinc</u> exceedance (1 of 1 sampling event). 5. <u>Missing core parameters</u> : <i>Escherichia coli</i> , dissolved metals (cadmium and zinc), total mercury, and turbidity/SSC.		Copper loading from this tributary was addressed in the Pinto Creek copper TMDL approved by EPA in 2001. ADEQ is currently conducting monitoring for a Phase II TMDL.
Gold Gulch Canyon headwaters - Pinto Creek 4 miles AZ15060103-894	A&We Inconclusive PBC Inconclusive Category 3 — Inconclusive	On the Planning List due to insufficient monitoring data to assess (only 1 sample).		

**TABLE 16. SALT RIVER WATERSHED — ASSESSMENT, PLANNING LIST, AND 303(d) STATUS**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
Greenback Creek headwaters - Tonto Creek 16 miles AZ15060105-005	A&Ww    Attaining FC        Attaining FBC       Attaining AgL       Attaining Category 1 — Attaining All Uses			
Haigler Creek headwaters - unnamed reach at 34 12 23.1 / 111 00 11 15 miles AZ15060105-012A (Reach was split into coldwater and warmwater segments since the last assessment. No current data in 012B.)	A&Wc    Attaining FC        Attaining FBC       Attaining AgL       Attaining AgL       Attaining Category 1 — Attaining All Uses			
Haunted Canyon headwaters - Pinto Creek 7 miles AZ15060103-879	A&Ww    Attaining FC        Attaining FBC       Attaining Category 1 — Attaining All Uses			
Hay Creek headwaters - West Fork Black River 5 miles AZ15060101-353 Unique Water	A&Wc    Inconclusive FC        Inconclusive FBC       Inconclusive AgL       Inconclusive Category 3 — Inconclusive	On the Planning List due to insufficient monitoring data to assess (only 2 samples).		
Miller Springs Canyon headwaters - Pinto Creek 2 miles AZ15060103-892	A&Ww    Inconclusive FBC       Inconclusive FC        Inconclusive Category 3 — Inconclusive	On the Planning List due to: 1. <u>Selenium</u> exceedances in 4 of 4 samples (some of these results may have been laboratory method providing false positives). 2. Former <u>turbidity</u> standard exceeded in 1 of 8 samples. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring. 3. <u>Missing core parameters</u> : <i>Escherichia coli</i> , dissolved oxygen, and total mercury.		
Pinal Creek Jesse Lane - Salt River 6 miles AZ15060103-280D	A&Ww    Attaining FC        Attaining FBC       Attaining AgL       Attaining Category 1 — Attaining All Uses			
Pinto Creek headwaters - tributary at 33 19 27 / 110 54 56 3 miles AZ15060103-018A (Reach was split into coldwater and warmwater segments since the last assessment.)	A&Wc    Not attaining FC        Inconclusive FBC       Inconclusive AgL       Inconclusive AgL       Inconclusive Category 4A — Not attaining	On the Planning List due to: 1. <u>Copper</u> TMDL follow up monitoring. 2. Insufficient monitoring data to assess (only 2 samples).		Copper TMDL completed by EPA in 2001. ADEQ is collecting data to support a Phase II <u>copper</u> TMDL for this reach.
Pinto Creek tributary at 33 19 27 / 110 54 56 - Ripper Spring 16 miles AZ15060103-018B (Reach was split into coldwater and warmwater segments since the last assessment.)	A&Ww    Not attaining FC        Inconclusive FBC       Inconclusive AgL       Inconclusive AgL       Attaining Category 4A -- Not attaining	On the Planning List due to: 1. <u>Chronic selenium</u> exceedances in 6 of 17 samples (some of these results may have been laboratory method providing false positives). 2. <u>Acute and chronic zinc</u> exceedance (1 of 22 sampling events, occurred in 2000). 3. TMDL follow-up monitoring for <u>copper</u> exceedances (9 of 22 sampling events). 4. <u>Missing core parameters</u> : <i>Escherichia coli</i> , total boron, and total mercury.		Copper TMDL completed by EPA in 2001. ADEQ is collecting data to support a Phase II <u>copper</u> TMDL for this reach.

**TABLE 16. SALT RIVER WATERSHED — ASSESSMENT, PLANNING LIST, AND 303(d) STATUS**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
Pinto Creek Ripper Spring - Roosevelt Lake 18 miles AZ15060103-018C (Renumbered reach since last assessment because of split discussed above)	A&Ww Impaired FC Attaining FBC Attaining Agl Attaining AgL Attaining Category 5 — Impaired		<u>Add copper</u> to the 303(d) List for chronic copper exceedances (2 of 24 sampling events).  <u>Add selenium</u> to the 303(d) List due to chronic selenium exceedances (3 of 3 sampling events). ADEQ's samples were analyzed using different laboratory methods than BHP's samples in the above reach (see selenium comment above).	
Pinto Creek, <u>West Fork</u> headwaters - Pinto Creek 12 miles AZ15060103-066	A&We Inconclusive PBC Inconclusive Category 3 — Inconclusive	On the Planning List due to insufficient monitoring data to assess (only 1 sample).		Sampled as part of the Pinto Creek <u>copper</u> TMDL. Any loadings from this tributary would be addressed in the Pinto Creek Phase II TMDL.
Reservation Creek headwaters - Black River 3 miles AZ15060101-010	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Agl Inconclusive Category 3 — Inconclusive	On the Planning List due to insufficient monitoring data to assess (only 1 sample).		
Rye Creek headwaters - Tonto Creek 18 miles AZ15060105-014	A&Ww Attaining FC Attaining FBC Inconclusive Agl Attaining Category 2 — Attaining Some Uses	On the Planning List due to <u>missing core parameter</u> : <i>Escherichia coli</i> .		
Salt River Pinal Creek-Roosevelt Lake 8 miles AZ15060103-004	A&Ww Inconclusive FC Attaining FBC Inconclusive Agl Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to: 1. <u>Escherichia coli</u> exceedance (immediately after the Rodeo-Chediski Fire). 2. Total <u>nitrogen</u> exceedances (1 of 4 samples before the fire and 4 of 5 after the fire). 3. <u>Suspended sediment concentration</u> annual geometric mean exceedance (1 of 1) occurred immediately after the fire.		
Salt River Roosevelt Lake - Apache Lake 8 miles AZ15060106A-024	A&Wc Inconclusive FC Inconclusive FBC Inconclusive DWS Inconclusive Agl Inconclusive AgL Inconclusive Category 3 — Inconclusive	On the Planning List due to insufficient monitoring data to assess (only 1 sample).		
Salt River Stewart Mountain Dam - Verde River 10 miles AZ15060106A-003	A&Wc Impaired FC Attaining FBC Inconclusive DWS Attaining Agl Attaining AgL Attaining Category 5 – Impaired	On the Planning List due to <u>Escherichia coli</u> exceedances (2 of 12 sampling events, occurred in 2000)*.	<u>Add copper</u> to the 303(d) List for chronic copper exceedances (3 of 81 sampling events).  <u>Add dissolved oxygen</u> to the 303(d) List. Low dissolved oxygen in 6 of 21 samples.	*Although two <i>Escherichia coli</i> exceedances, FBC was assessed as "inconclusive" rather than "impaired" for the following reasons: 1. One of the two <i>Escherichia coli</i> exceedances was very close to the standard (result is 240, standard is 235) and lab methods provide an estimate of bacterial density (most probable number) (see discussion in Chapter III). 2. The two exceedances represent a small proportion of the total number of samples on this reach (2 of 96 samples, 2 of 40 monitoring events).
Snake Creek headwaters - Black River 6 miles AZ15060101-045 Unique Water	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Agl Inconclusive Category 3 — Inconclusive	On the Planning List due to <u>missing core parameters</u> : <i>Escherichia coli</i> , dissolved metals (copper and zinc), and total metals (mercury, copper and lead).		

**TABLE 16. SALT RIVER WATERSHED — ASSESSMENT, PLANNING LIST, AND 303(d) STATUS**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
Spring Creek headwaters - Tonto Creek 20 miles AZ15060105-010	A&Ww    Attaining FC        Attaining FBC      Inconclusive Agl      Attaining Category 2 -- Attaining Some Uses	On the Planning List due to <u>missing core parameter</u> : <i>Escherichia coli</i> .		
Stinky Creek Fort Apache Reservation - West Fork Black River AZ15060101-352A Unique Water	A&Wc    Inconclusive FC        Inconclusive FBC      Inconclusive Agl      Inconclusive Category 3 — Inconclusive	On the Planning List due to <u>missing core parameters</u> : <i>Escherichia coli</i> , dissolved metals (copper, cadmium, and zinc), and total metals (mercury, copper and lead).		
Tonto Creek headwaters - unnamed tributary at 34 18 10 / 111 04 14 8 miles AZ15060105-013A (Reach was split into coldwater and warmwater segments since the last assessment.)	A&Wc    Impaired FC        Attaining FBC      Not attaining Agl      Attaining Agl      Attaining Category 5 -- Impaired	On the Planning List for: 1. <i>Escherichia coli</i> TMDL follow-up monitoring. ( <i>E. Coli</i> exceedances in 1 of 15 sampling events, occurred in 2000). 2. Exceedances of the former <u>turbidity</u> standard (19 of 99 samples, or 19 of 41 samples below the USGS gage). Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.	<u>Nitrogen</u> placed on the 2004 303(d) List by EPA (1 of 1 annual mean exceedance).  <u>Delist turbidity</u> . The turbidity standard was repealed in 2002. Add to the Planning List due to exceedances of the former standard.	
Tonto Creek unnamed tributary at 34 18 10 / 111 04 14 - Haigler Creek 9 miles AZ15060105-013B (Reach was split into coldwater and warmwater segments since the last assessment.)	A&Ww    Impaired FC        Attaining FBC      Not attaining Agl      Attaining Agl      Attaining Category 5 -- Impaired	On the Planning List for: 1. <i>Escherichia coli</i> TMDL follow-up monitoring. ( <i>E. coli</i> exceedances in 2 of 7 sampling events, occurred in 2000)*. 2. Former <u>turbidity</u> standard exceedances (7 of 21 samples). Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.	<u>Nitrogen</u> placed on the 2004 303(d) List by EPA (1 of 1 annual mean exceedance).  <u>Delist turbidity</u> . The turbidity standard was repealed in 2002. Add to the Planning List. The Aquatic and Wildlife use is assessed as "inconclusive" due to exceedances of the former turbidity standard.	
Tonto Creek Rye Creek - Gun Creek 5 miles AZ15060105-008	A&Ww    Attaining FC        Attaining FBC      Attaining Agl      Attaining Agl      Attaining Category 1 — Attaining All Uses		<u>Delist turbidity</u> . The standard was repealed in 2002. No exceedances of the former standard in 18 samples.	

**SALT WATERSHED -- LAKE ASSESSMENTS**

Apache Lake 2200 acres AZL15060106A-0070	A&Wc    Inconclusive FC        Attaining FBC      Inconclusive DWS      Inconclusive Agl      Attaining Agl      Attaining Category 2 — Attaining Some Uses Trophic status -- Oligotrophic	On the Planning List due to: 1. <u>Missing core parameters</u> : <i>Escherichia coli</i> , nitrogen, phosphorus, and total fluoride. 2. Low <u>dissolved oxygen</u> (7 of 45 samples).		
Big Lake 440 acres AZL15060101-0160	A&Wc    Inconclusive FC        Attaining FBC      Inconclusive DWS      Attaining Agl      Attaining Agl      Attaining Category 2 — Attaining Some Uses Trophic status -- Eutrophic	On the Planning List due to: 1. <u>Missing core parameters</u> : <i>Escherichia coli</i> and dissolved cadmium. 2. Low <u>dissolved oxygen</u> (1 of 4 samples).		



**TABLE 16. SALT RIVER WATERSHED — ASSESSMENT, PLANNING LIST, AND 303(d) STATUS**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
Canyon Lake 450 acres AZL15060106A-0250	A&Wc Impaired FC Inconclusive FBC Inconclusive DWS Inconclusive Agl Inconclusive AgL Inconclusive Category 5 — Impaired Trophic status not calculated	On the Planning List due to: 1. Chronic ammonia exceedance (1 of 20 sampling events). 2. Missing core parameters: <i>Escherichia coli</i> , total fluoride, total boron, total nitrogen, nitrate, total phosphorus, total metals (mercury, arsenic, chromium, lead, and copper), and dissolved metals (copper, cadmium, and zinc).	Add dissolved oxygen to the 303(d) List due to low dissolved oxygen in 7 of 35 samples.	
Crescent Lake 150 acres AZL15060101-0420	A&Wc Impaired FC Attaining FBC Impaired Agl Impaired AgL Impaired Category 5 – Impaired Trophic status – Eutrophic	On the Planning List due to: 1. Fish kill in 1998 related to algal blooms, weed growth, and high pH may indicate a narrative nutrient standard violation. 2. Nitrogen exceedance in 1 of 9 samples. 3. Missing core parameters: <i>Escherichia coli</i> , turbidity, and dissolved metals (copper and cadmium).	EPA placed this reach on the 2002 303(d) List for high pH based on 5 of 7 exceedances. Once listed, the lake cannot be delisted until a TMDL is complete or pH data indicate that designated uses are being attained.	
Lake Sierra Blanca 30 acres AZL15060101-1390	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Agl Inconclusive AgL Inconclusive Category 3 -- Inconclusive Trophic status not calculated	On the Planning List. No current monitoring data. Added in 2002 due to a fish kill in 1998.		Fish kill in 1998 (related to weed growth and high pH) may be evidence of narrative standards violations.
Roosevelt Lake 18,350 acres AZL15060103-1240	A&Ww Inconclusive FC Attaining FBC Inconclusive DWS Attaining Agl Attaining AgL Attaining Category 2 -- Attaining Some Uses Trophic status -- Mesotrophic-Hypereutrophic	On the Planning List due to: 1. Former turbidity standard exceedances before the fire (11 of 46 samples). Causes and sources of the turbidity will be investigated during the next monitoring cycle for this watershed. 2. Missing core parameters: <i>Escherichia coli</i> , total nitrogen, and total phosphorus. 3. Insufficient data following the fire to make a full assessment. Monitoring will be scheduled to determine whether residual impacts remain.		
Saguaro Lake 1025 acres AZL15060106A-1290	A&Wc Inconclusive FC Attaining FBC Inconclusive DWS Attaining Agl Attaining AgL Attaining Category 2 -- Attaining Some Uses Trophic status -- Mesotrophic	On the Planning List due to missing core parameters: <i>Escherichia coli</i> , total nitrogen, and total phosphorus.		